

Fig. 1A

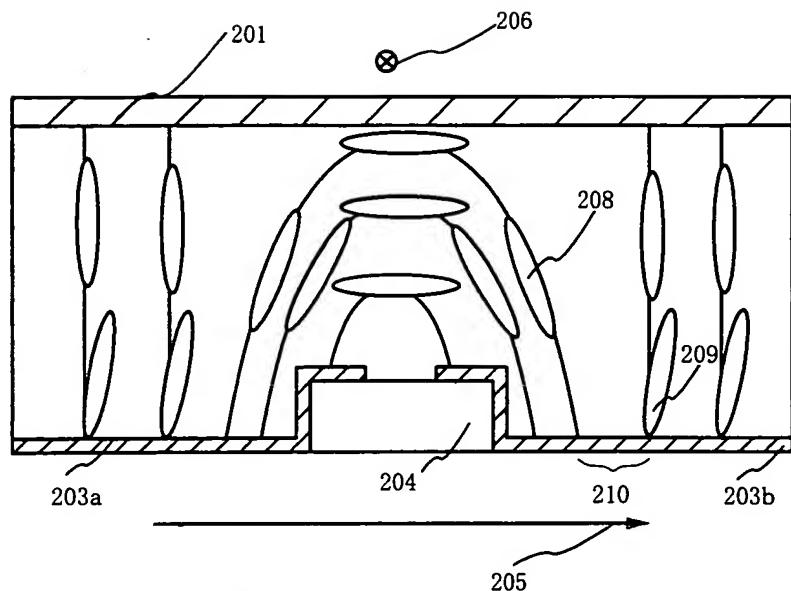


Fig. 1B

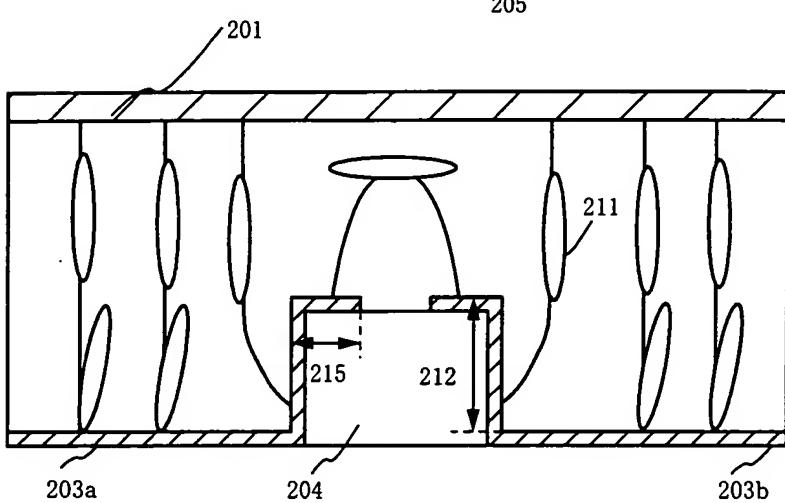
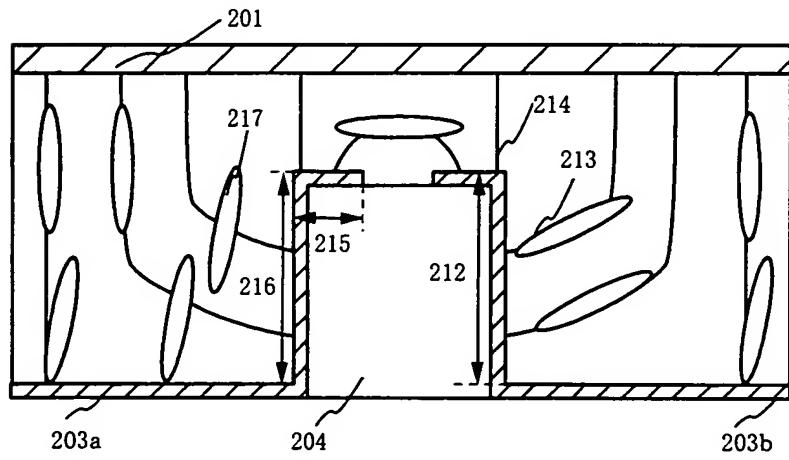


Fig. 1C



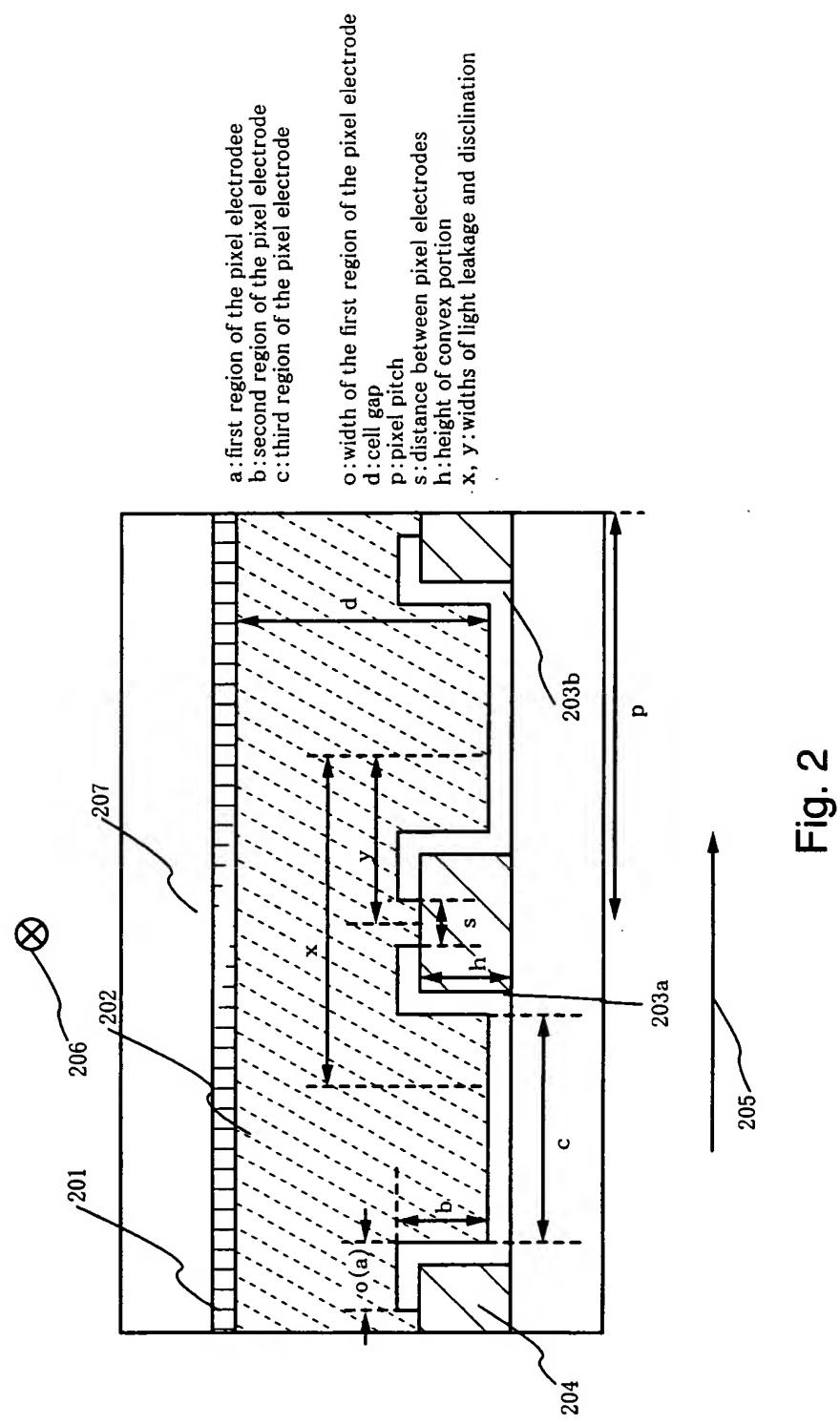


Fig. 2

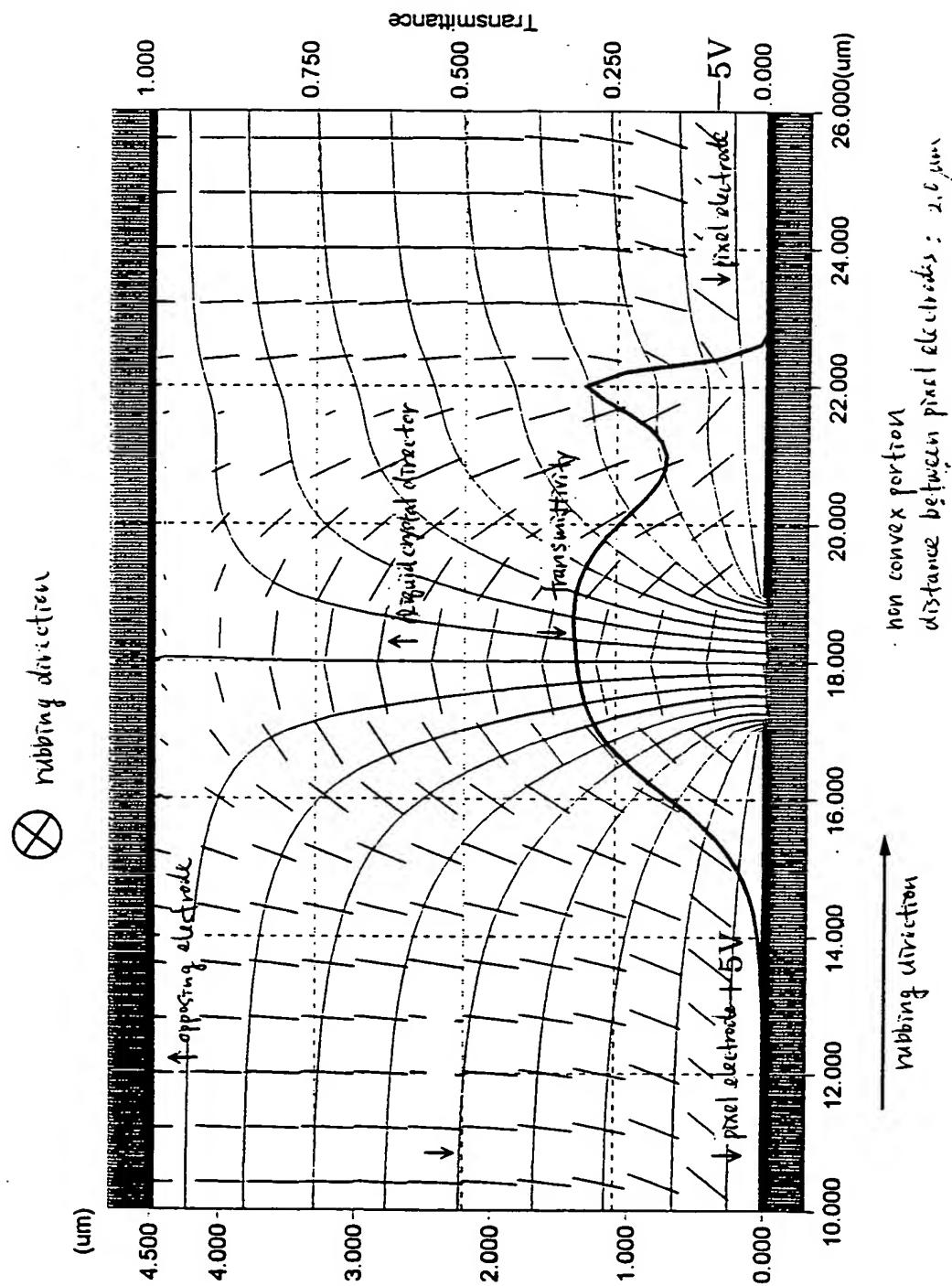
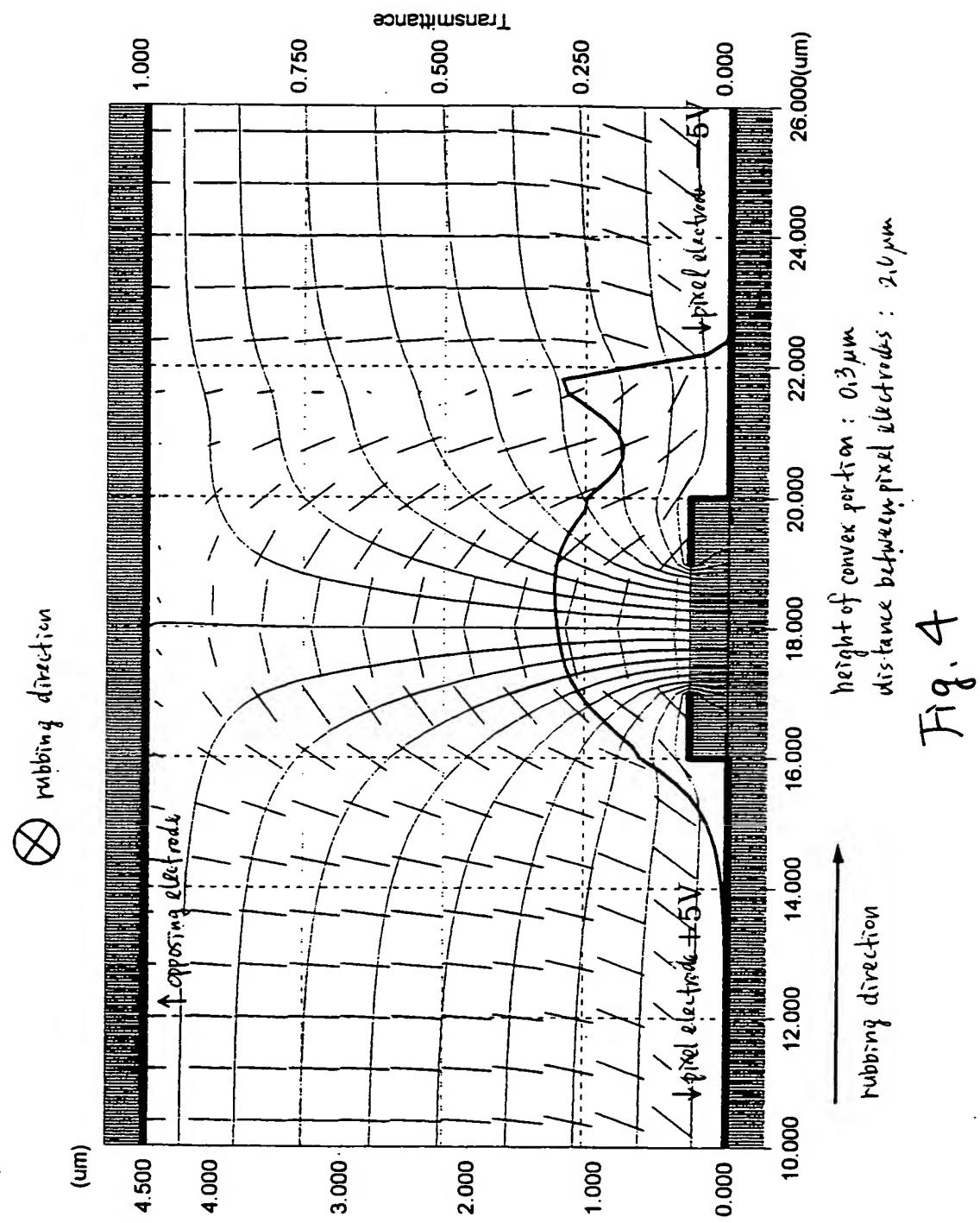
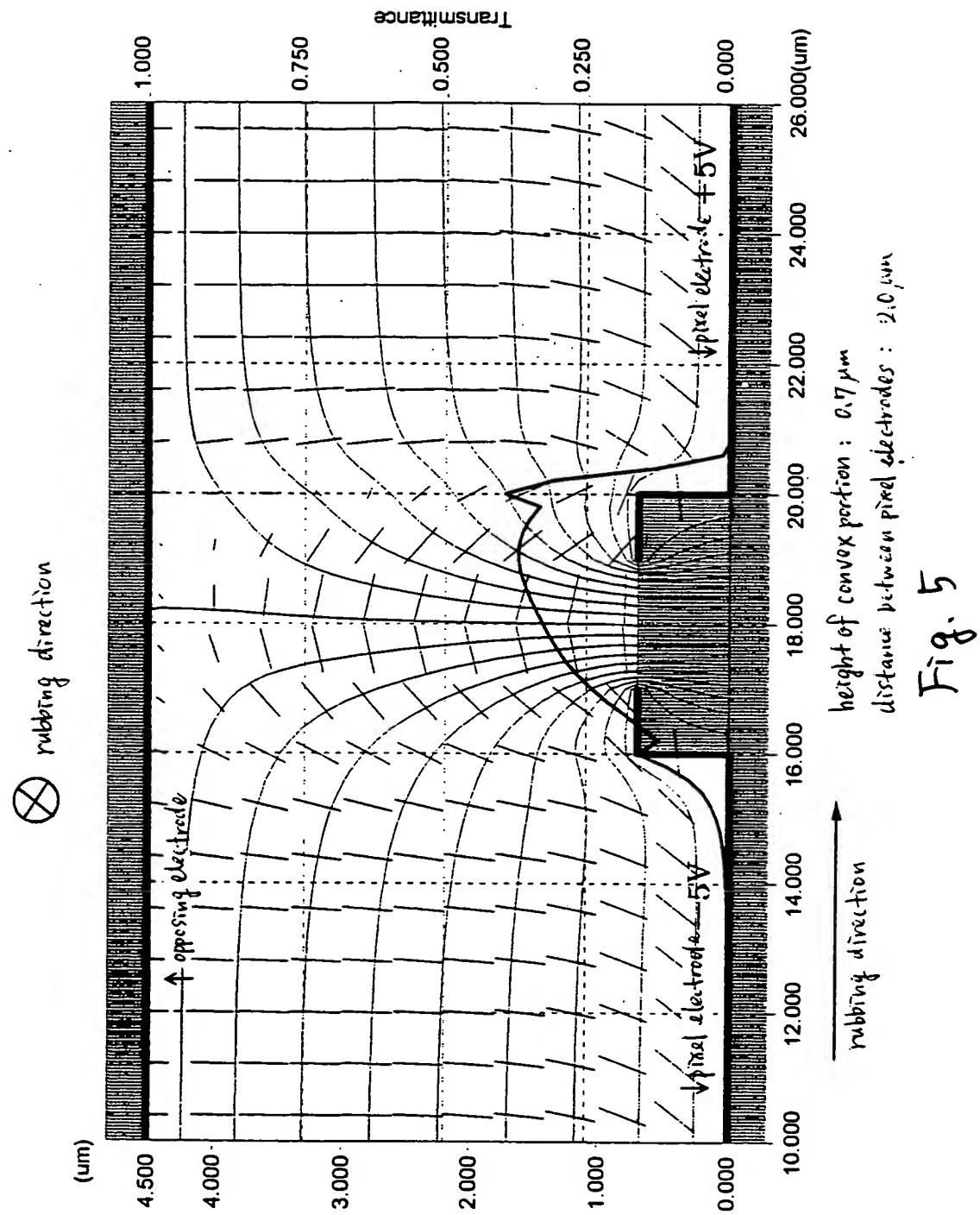
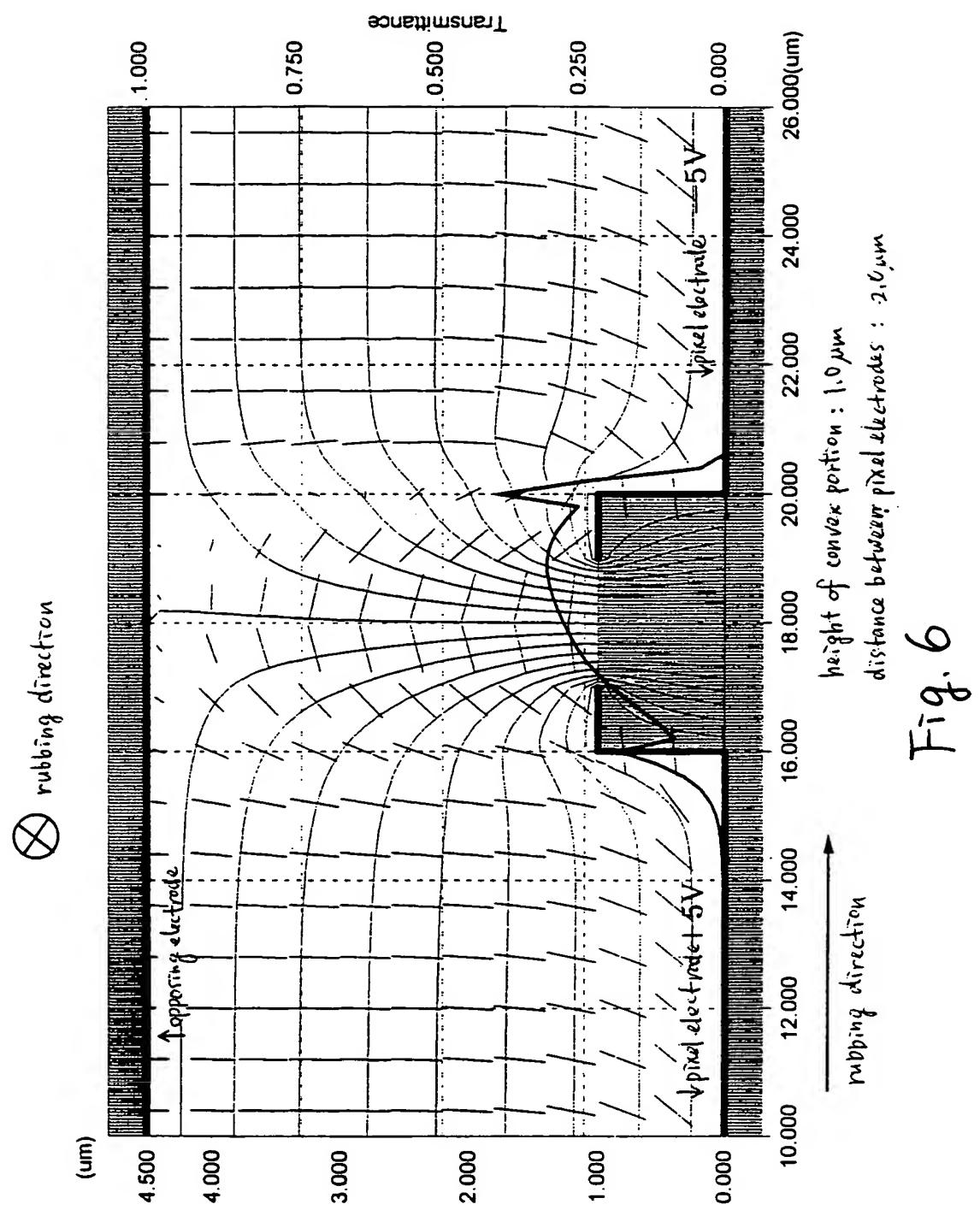


Fig. 3







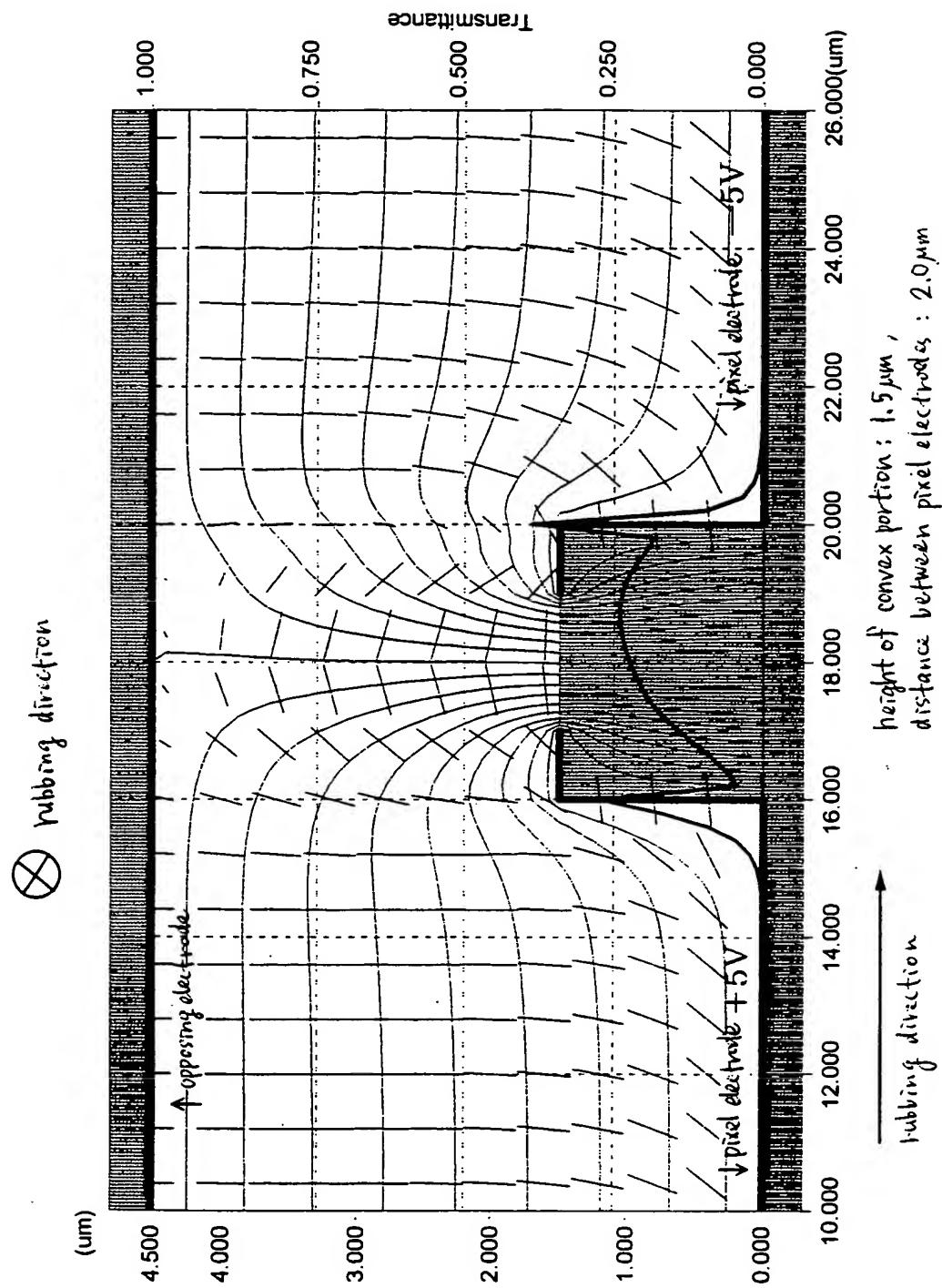


Fig. 7

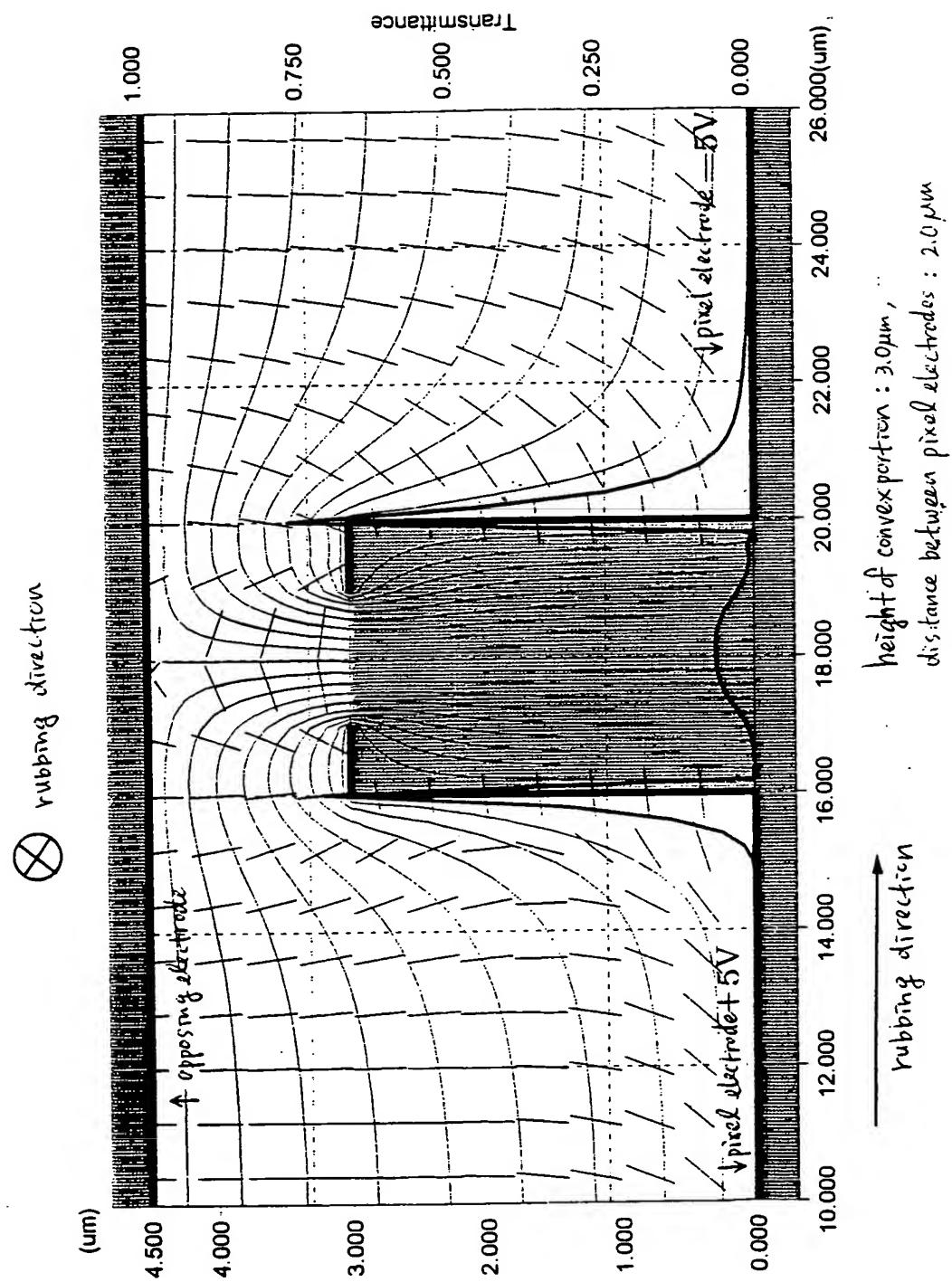
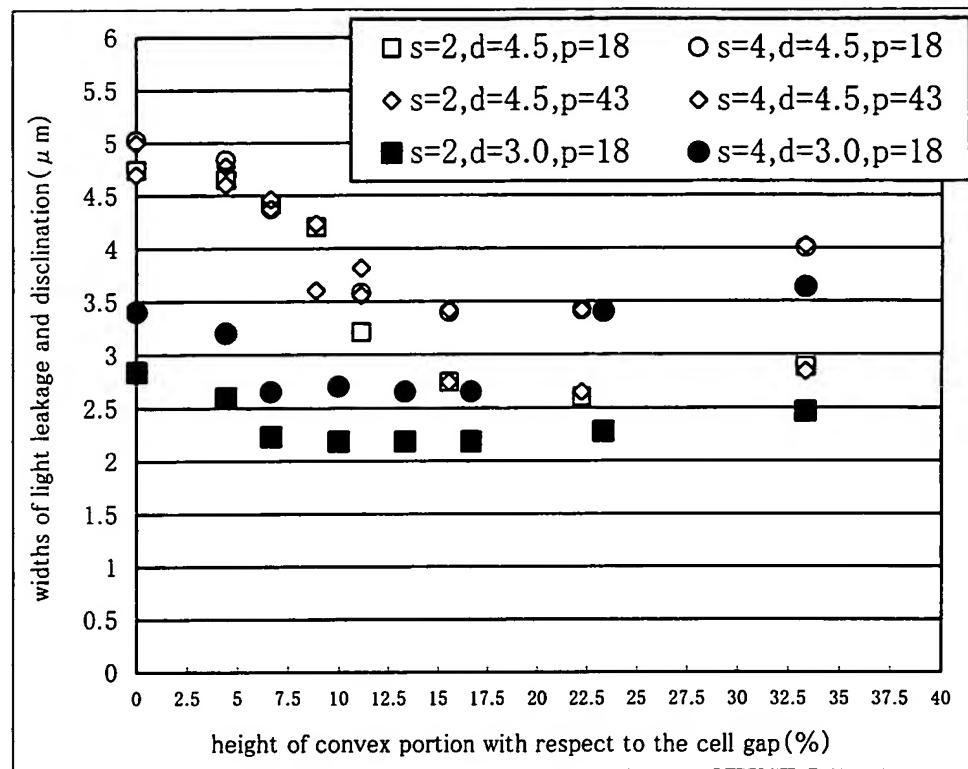


Fig. 8

Fig. 9



d :cell gap (μm)

s :distance between pixel electrodes (μm)

p :pixel pitch (μm)

relationship between widths of light leakage and disclination (x)
and height of convex portion (h)

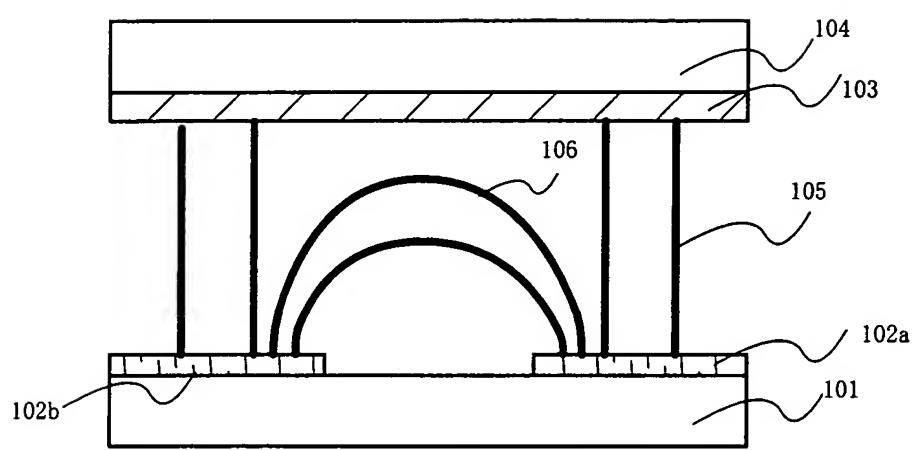


Fig. 10

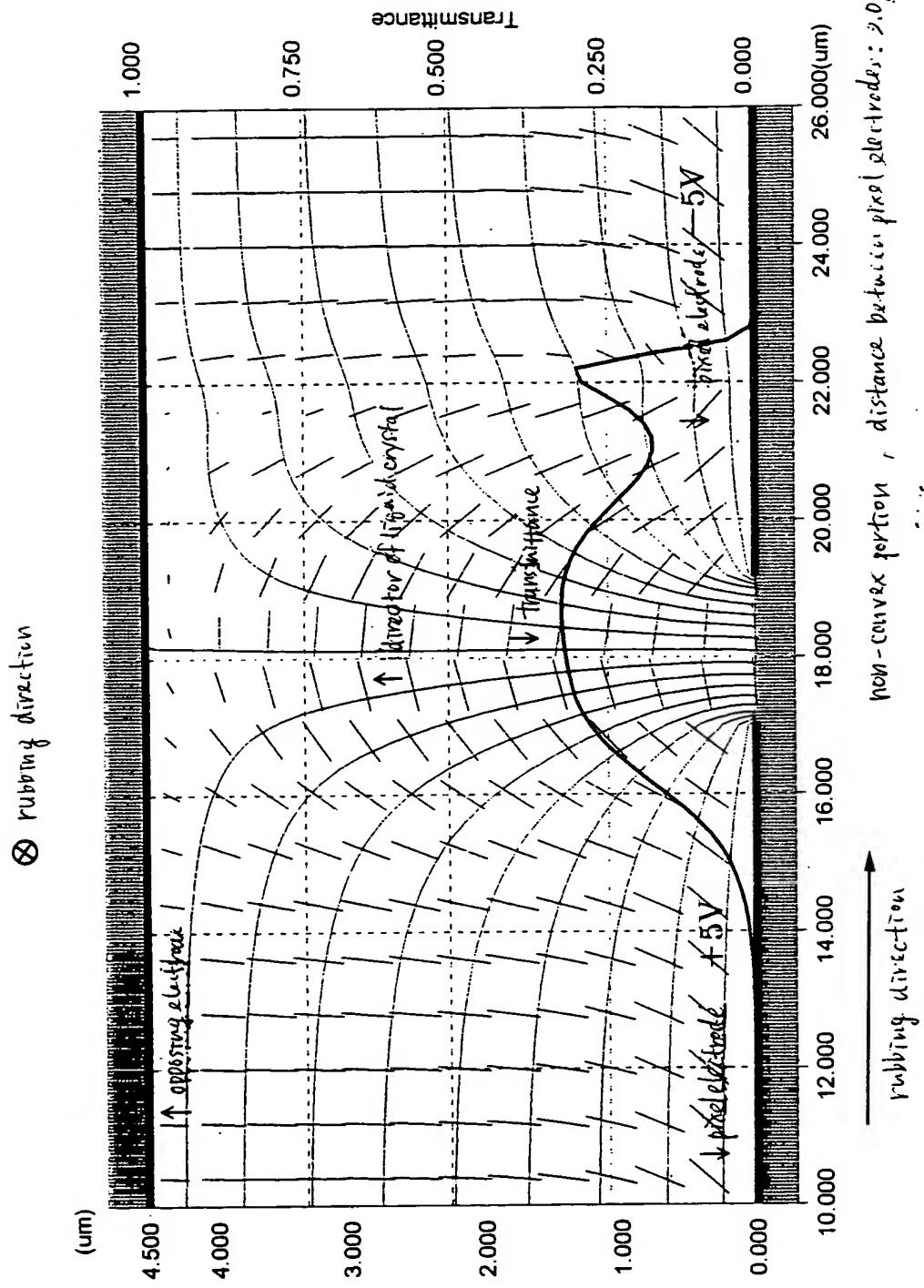


Fig. 11

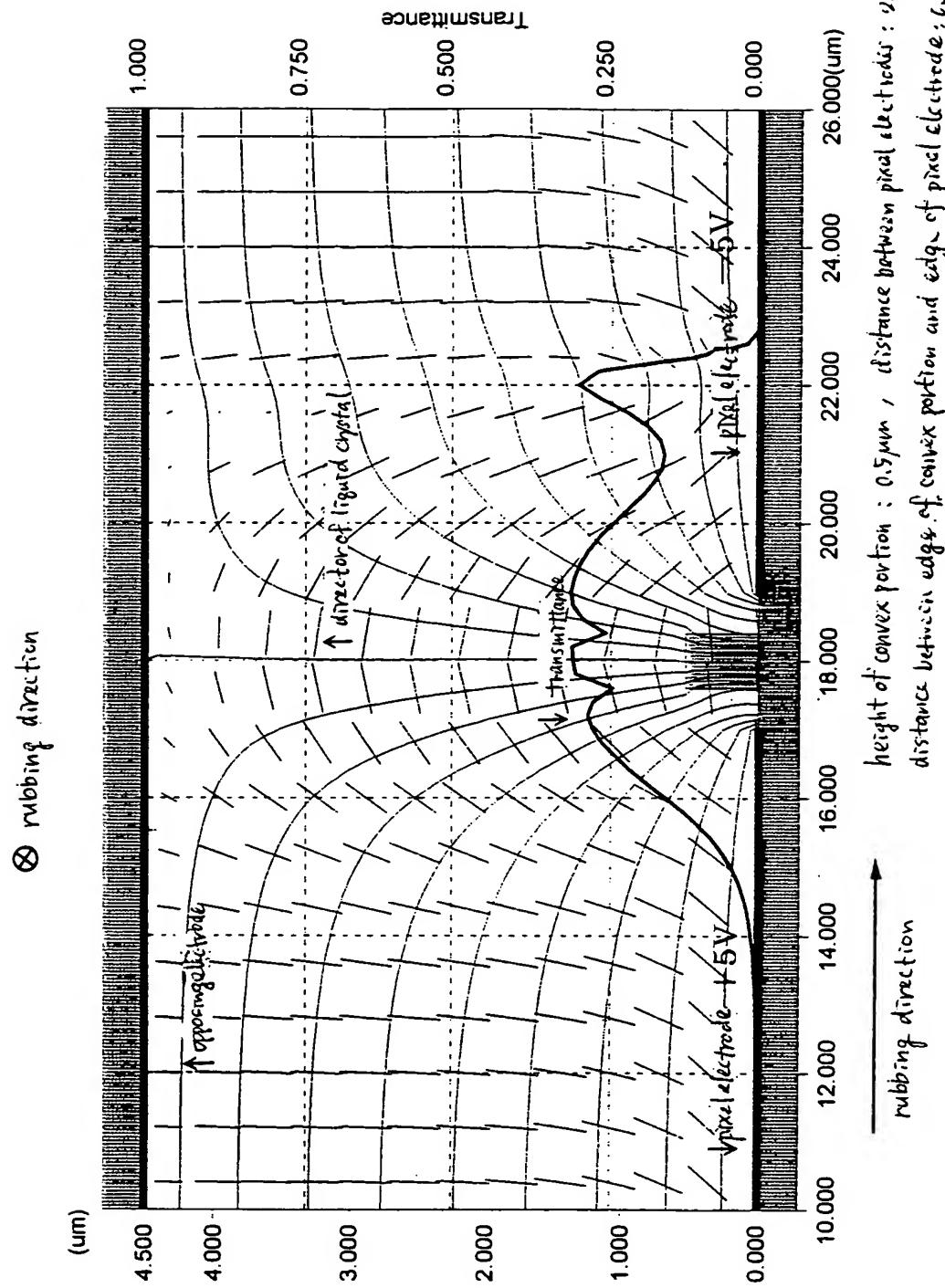


Fig. 12

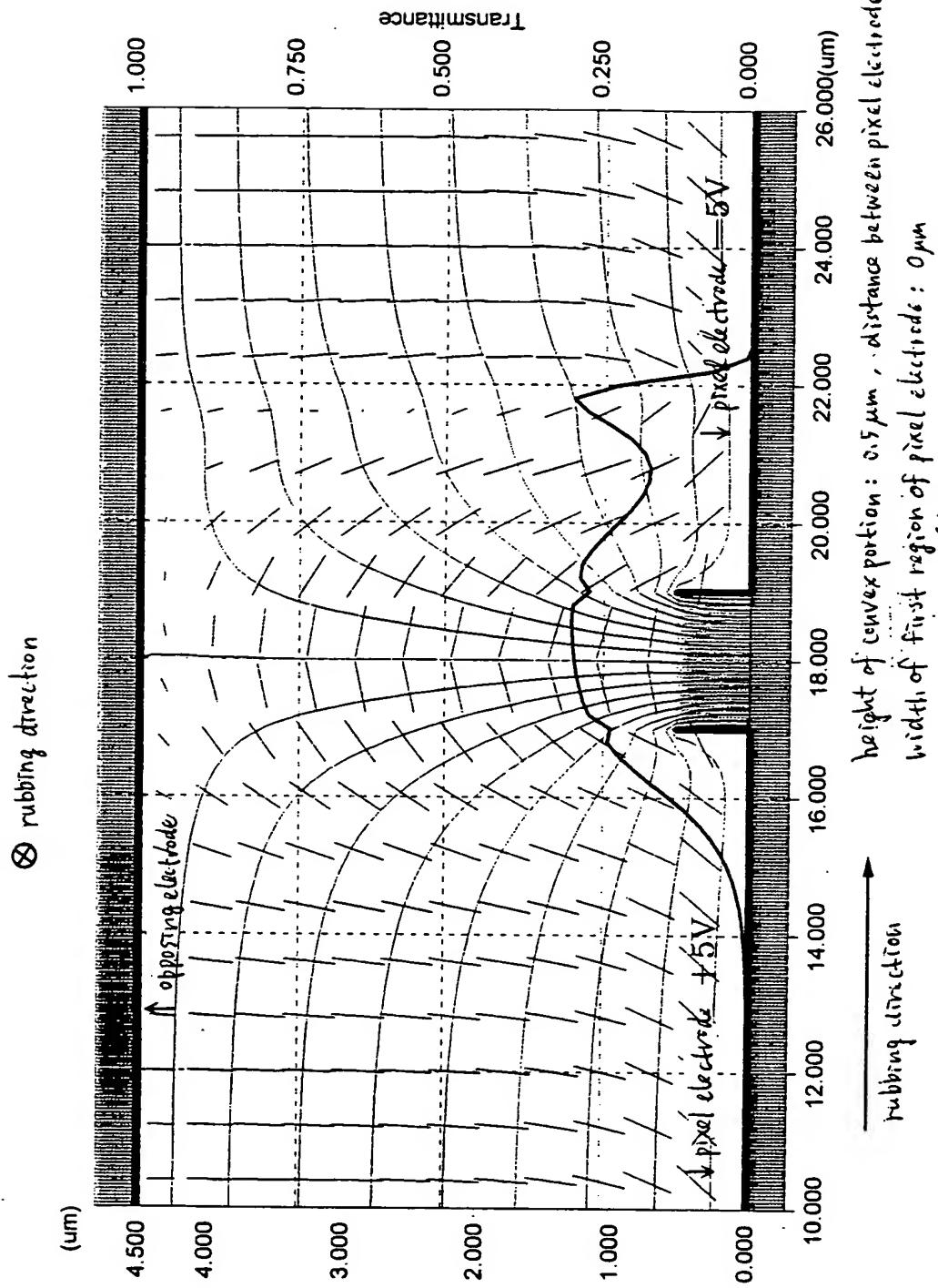


Fig. 13

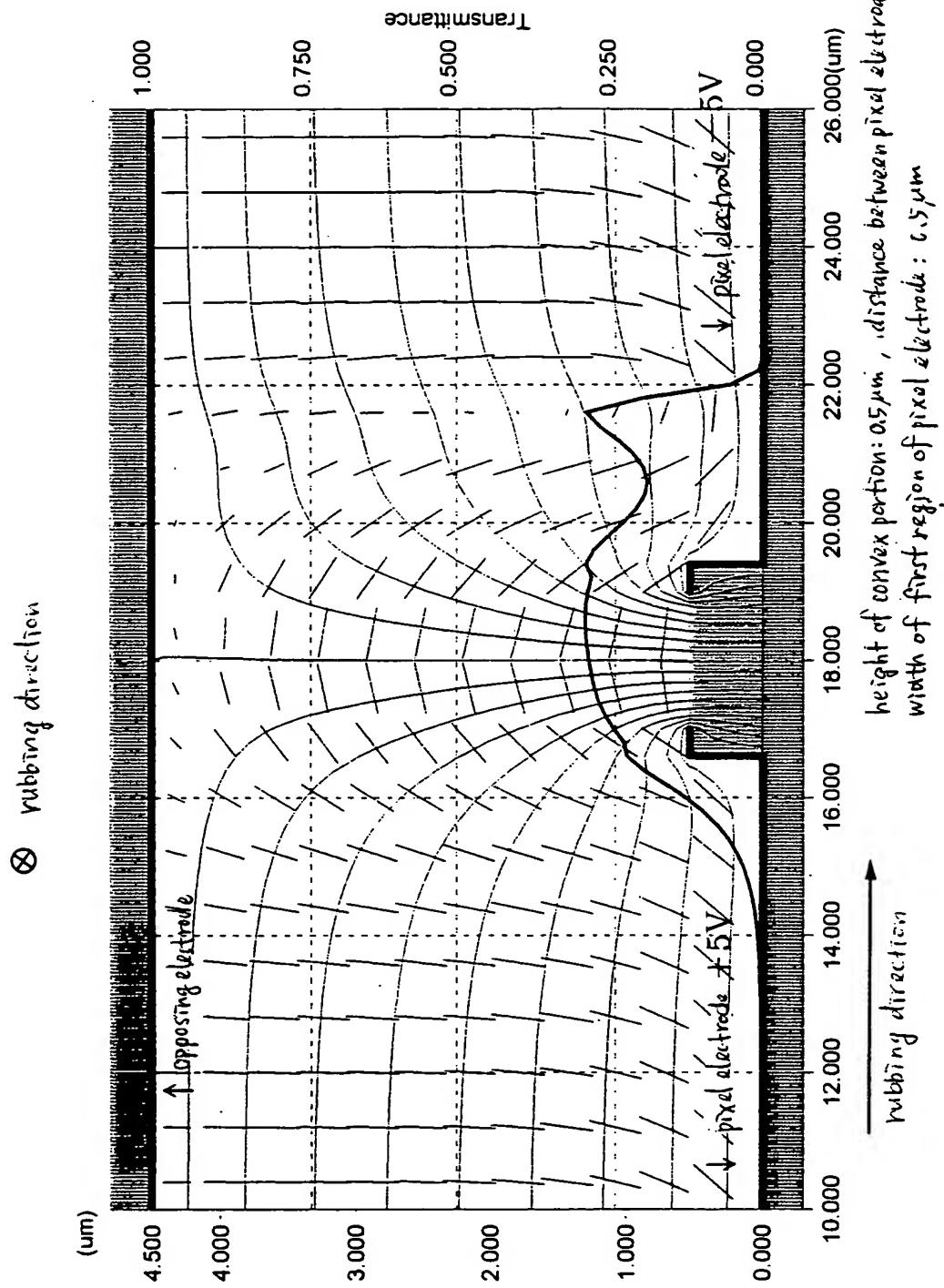


Fig. 14

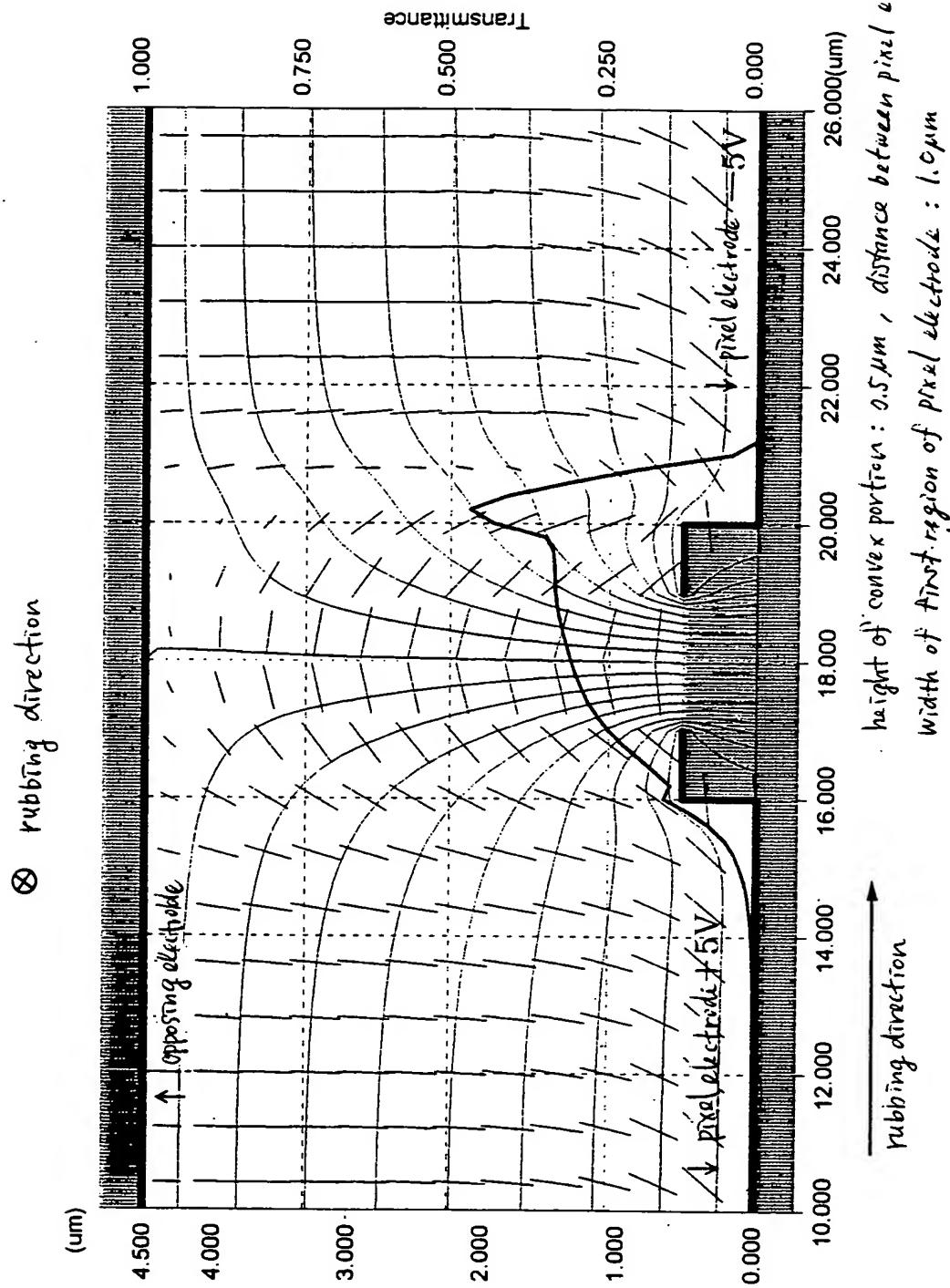


Fig. 15

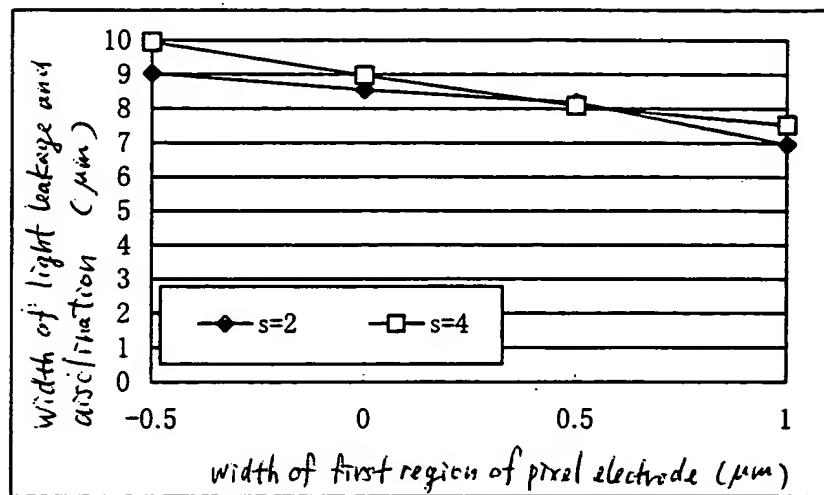


Fig. 16A

The relation between width of first region of pixel electrode and width of disclination and light leakage
 distance between pixel electrodes: $2.0\mu\text{m}$ ($s=2$), $4.0\mu\text{m}$ ($s=4$)

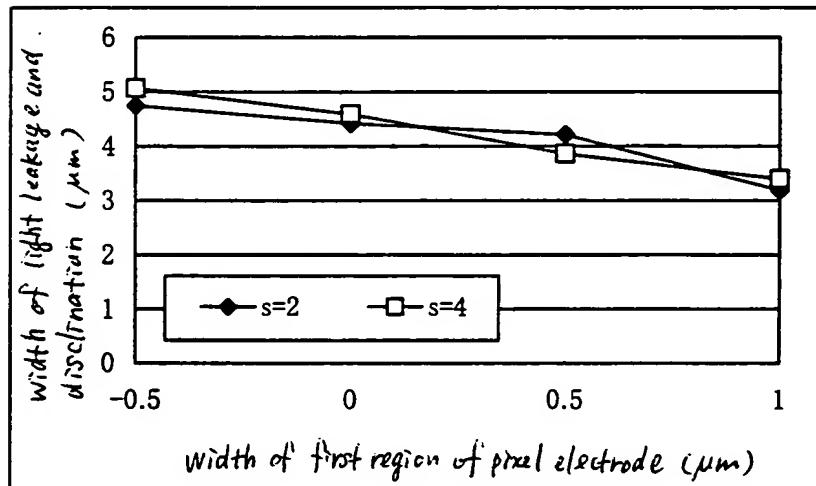


Fig. 16 B

The relation between width of first region of pixel electrode and width of disclination and light leakage
 distance between pixel electrodes: $2.0\mu\text{m}$ ($s=2$), $4.0\mu\text{m}$ ($s=4$)

Fig. 17

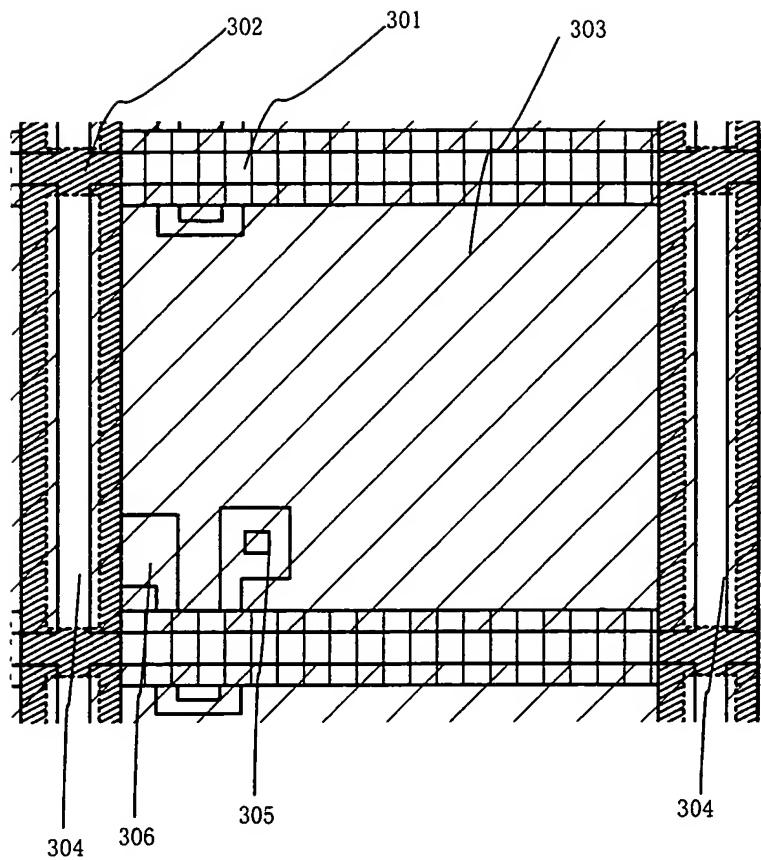


Fig. 18

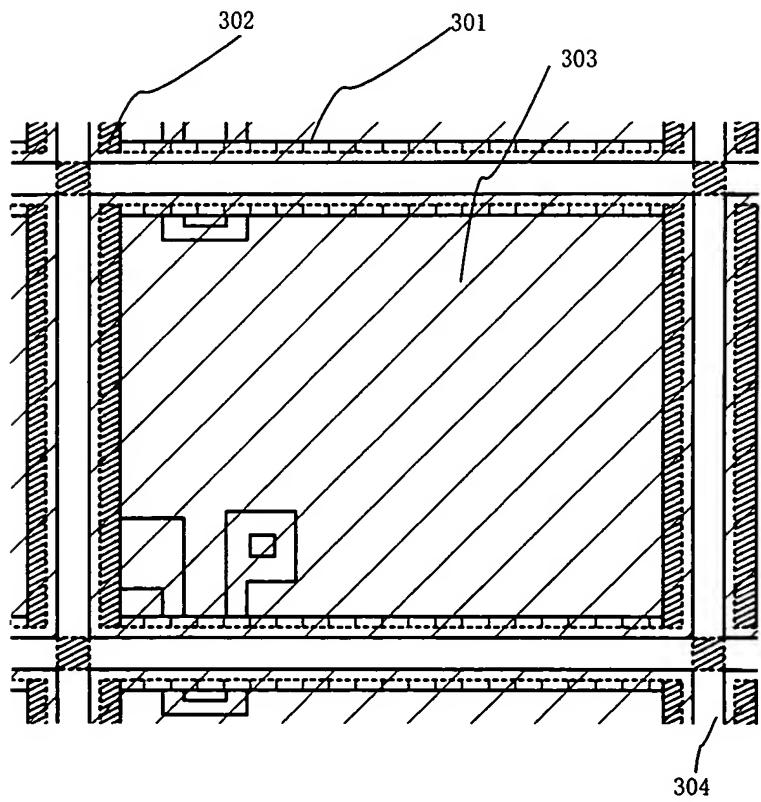


Fig. 19

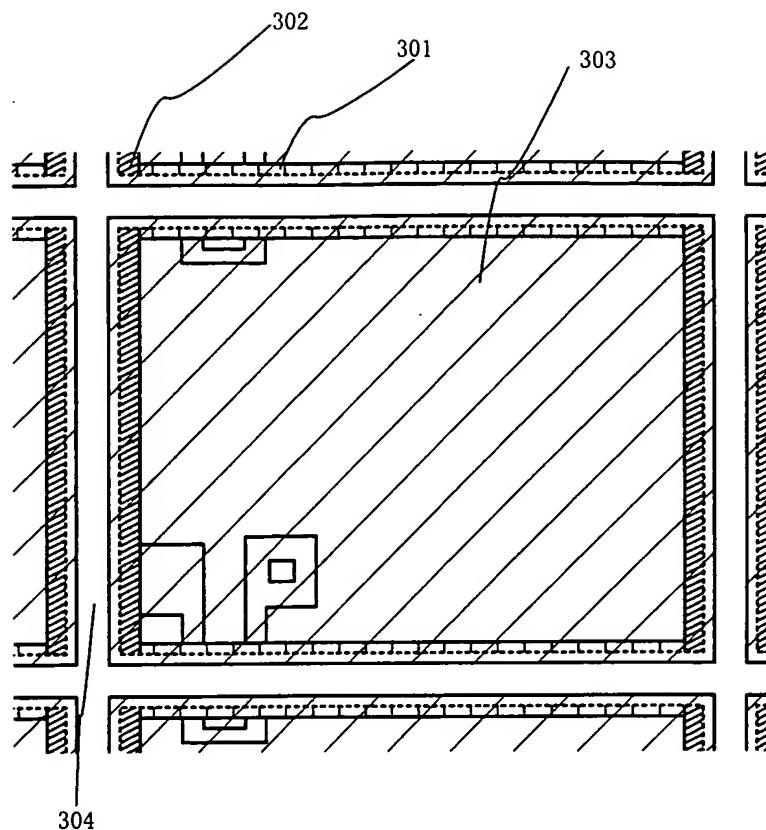
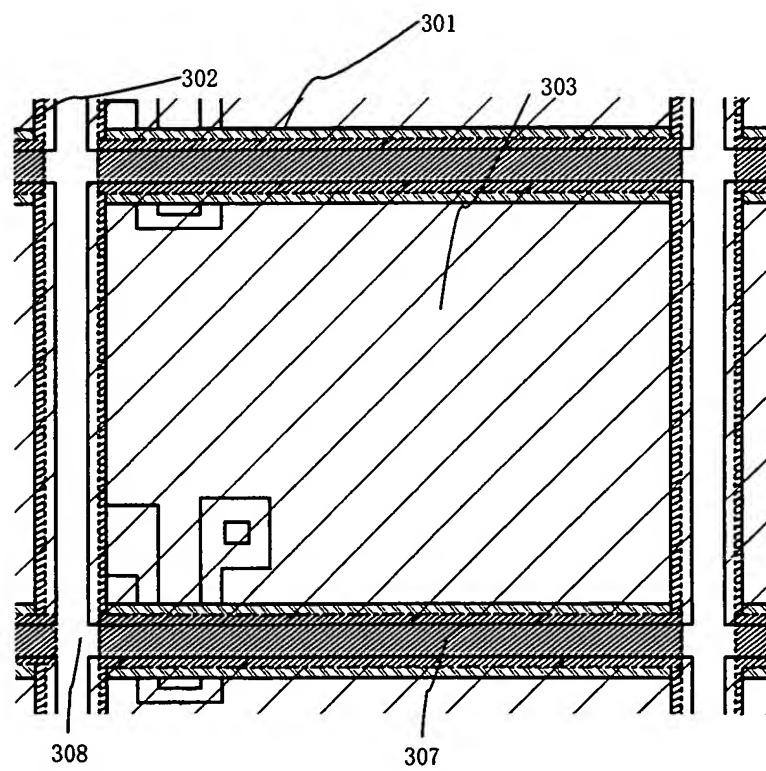


Fig. 20



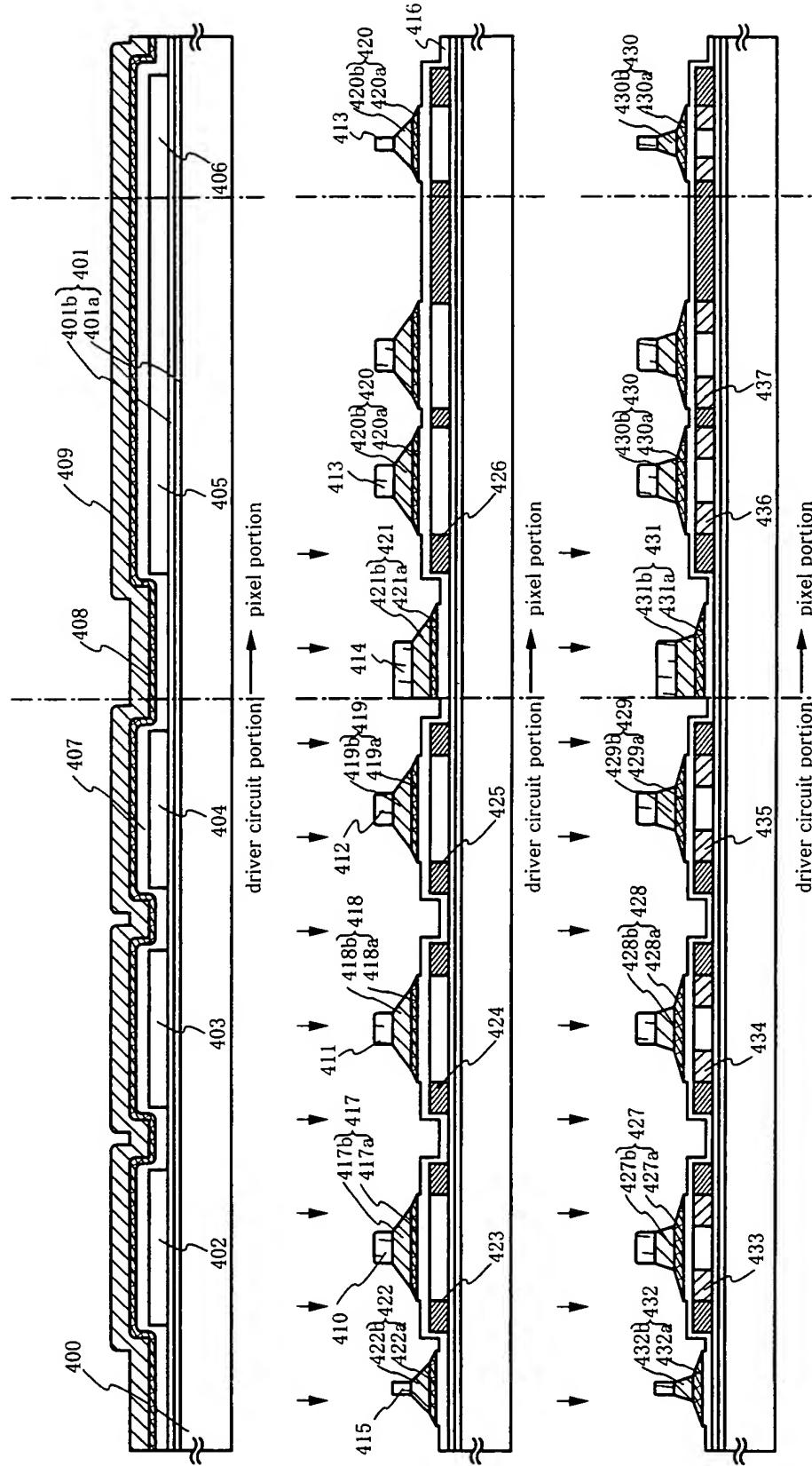


Fig. 21A

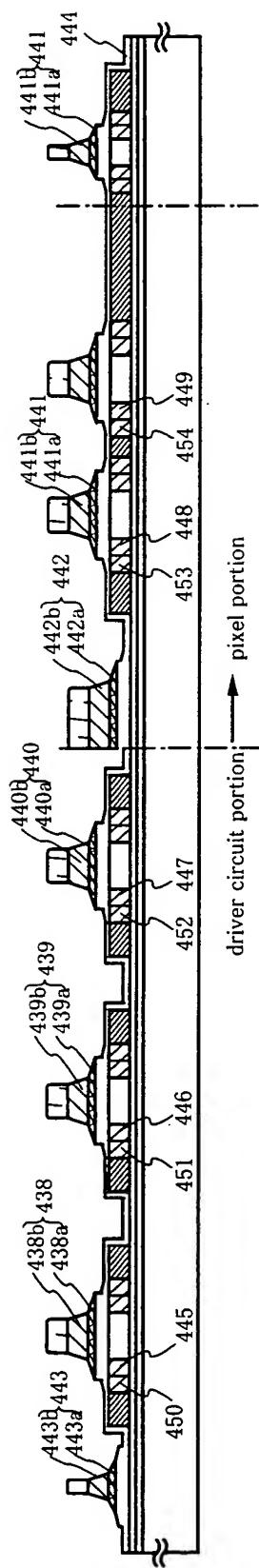


Fig. 22A

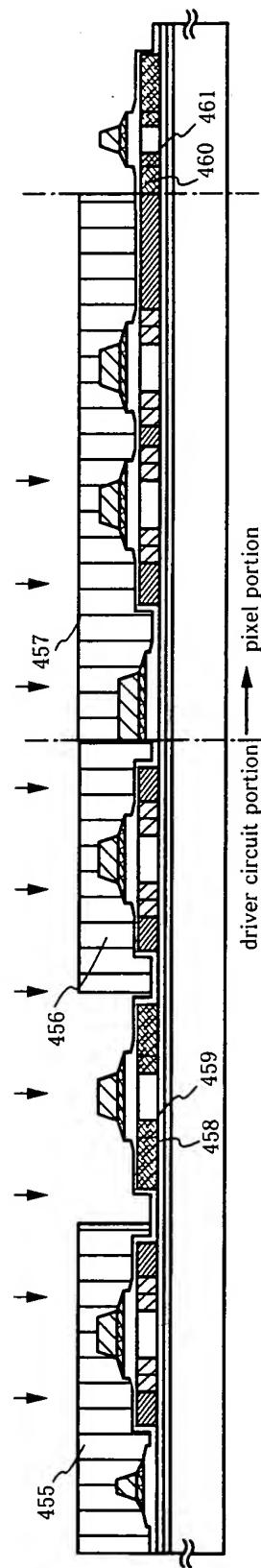


Fig. 22B

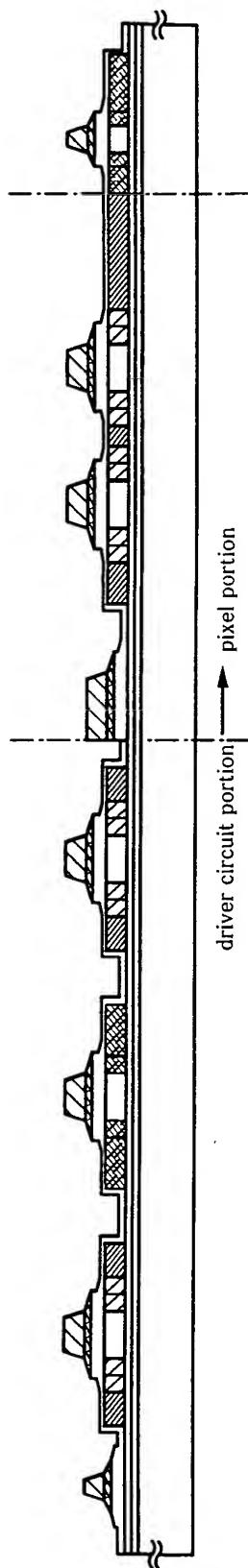


Fig. 22C

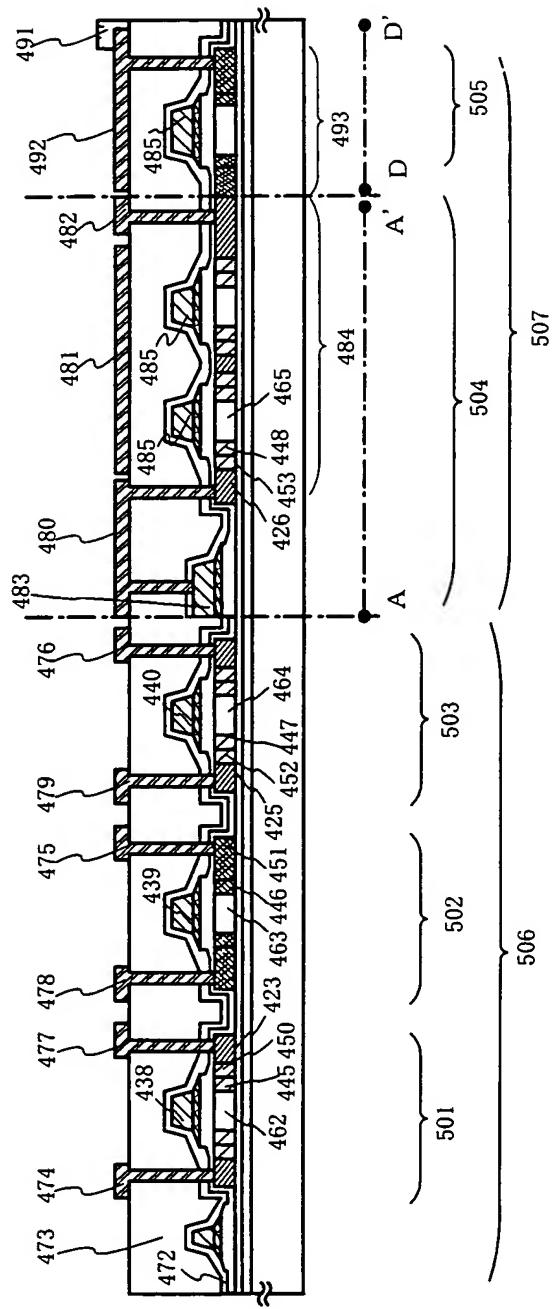


Fig. 23

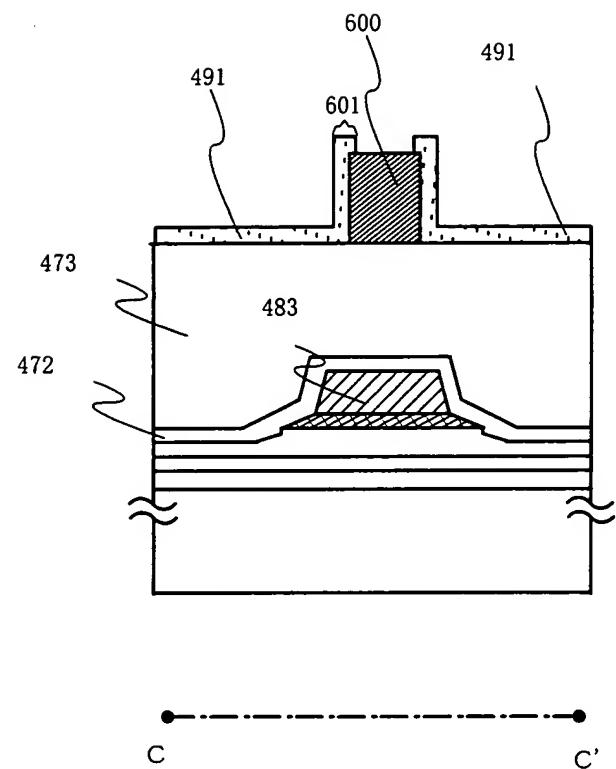


Fig. 24

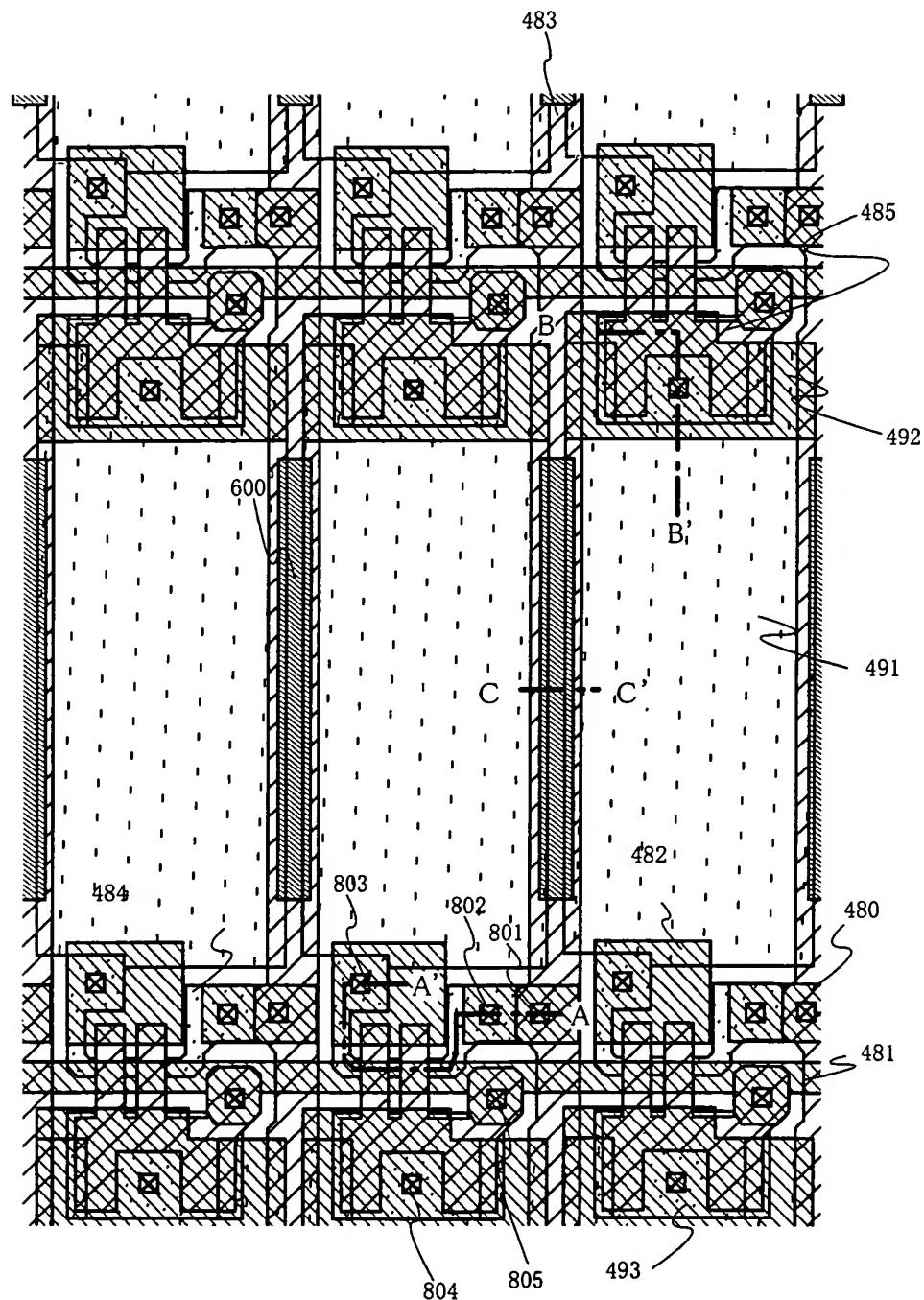


Fig. 25

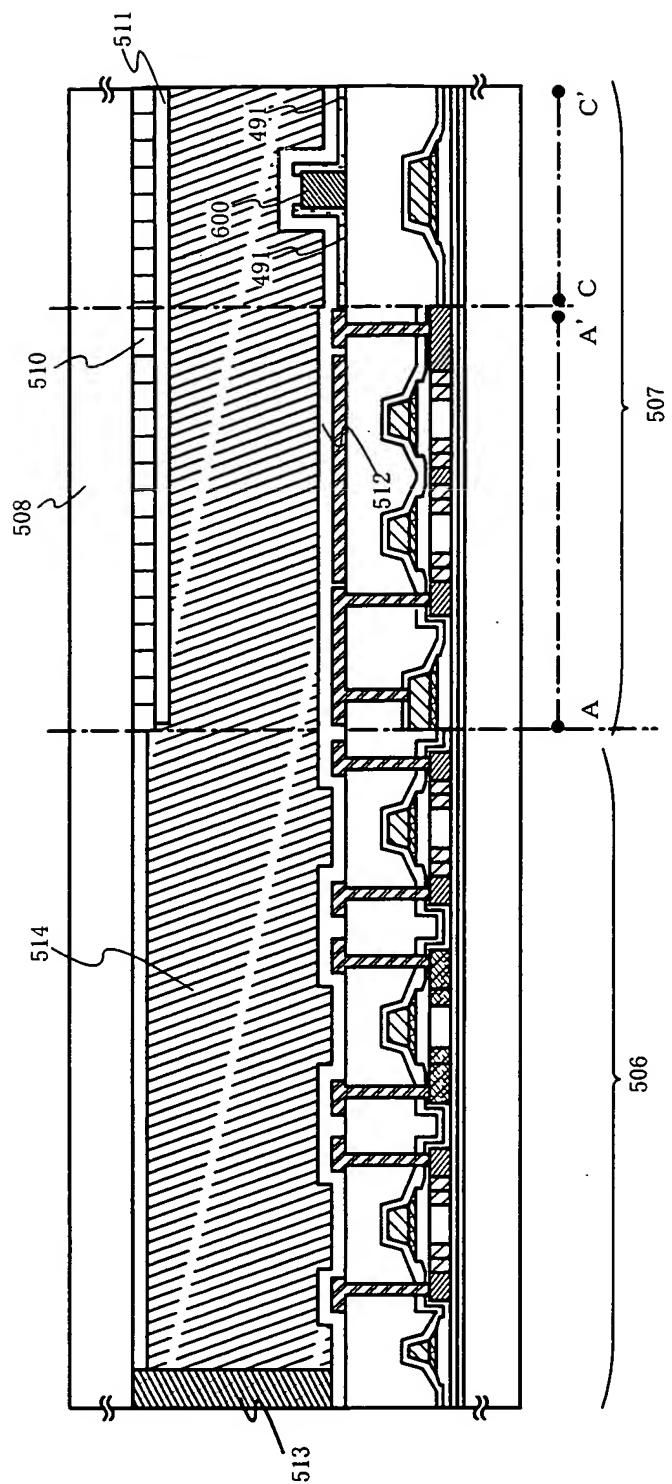


Fig. 26

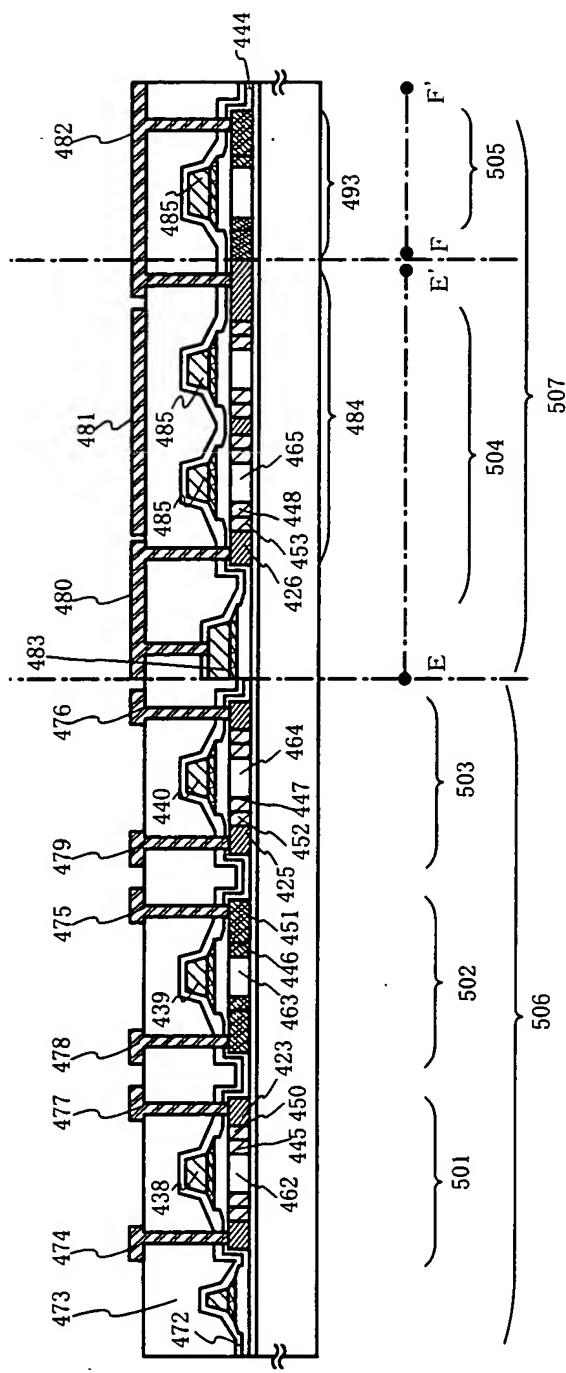


Fig. 27

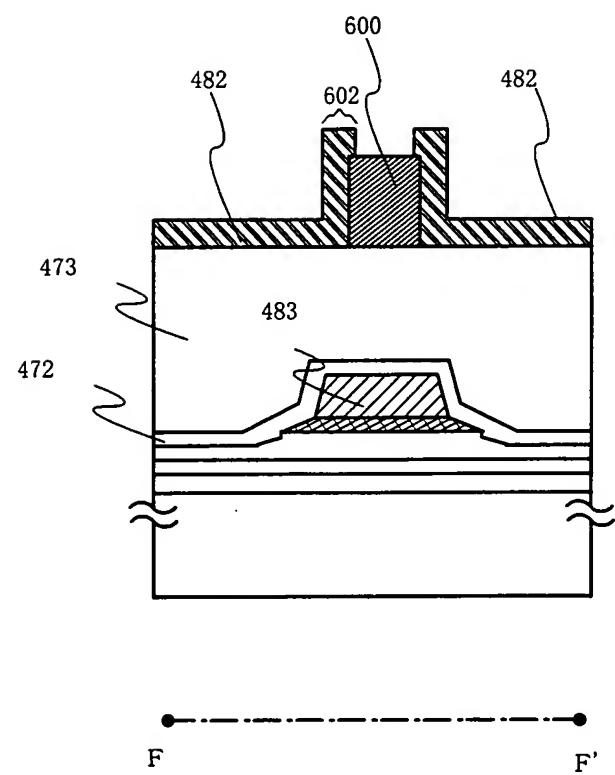


Fig. 28

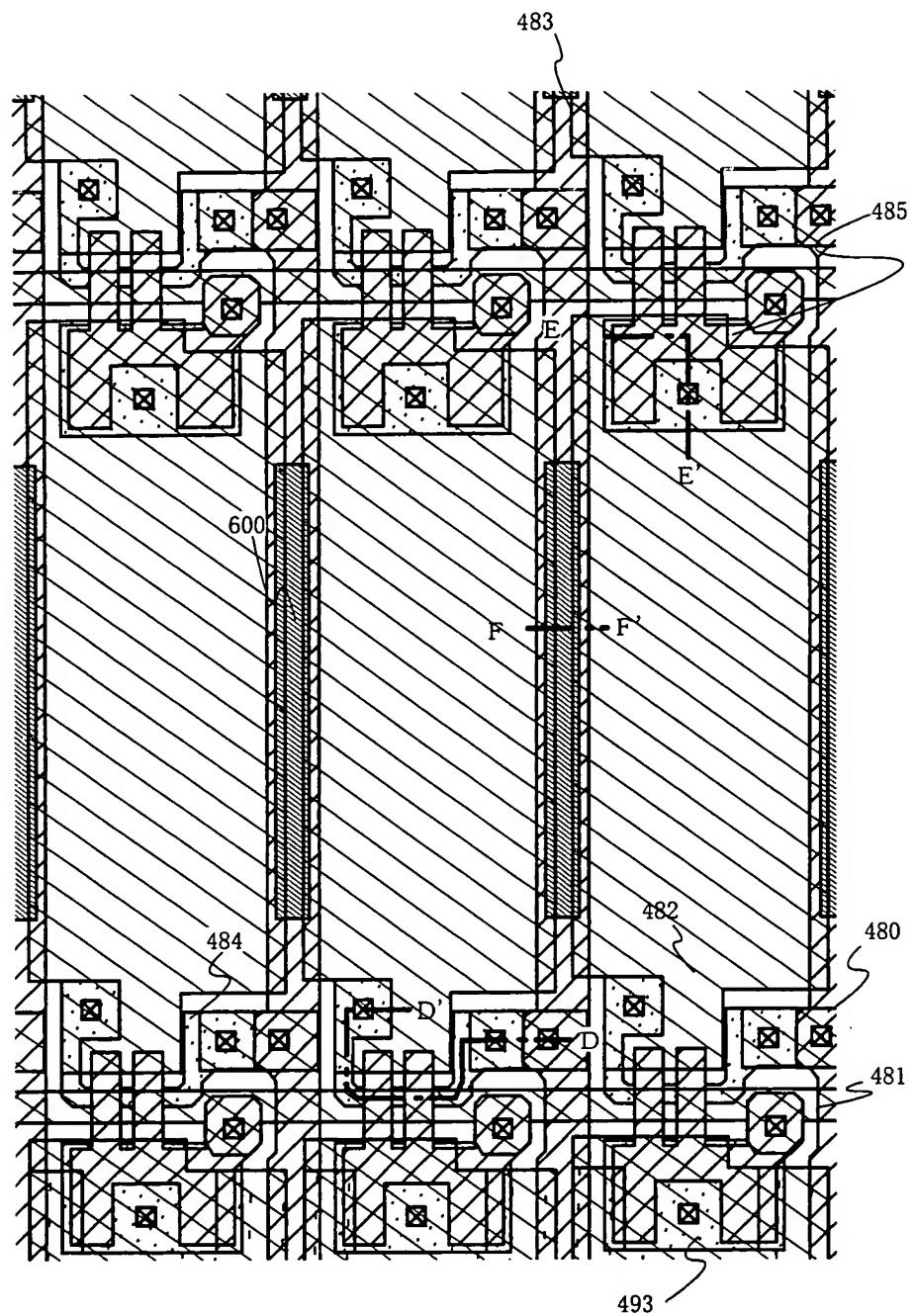


Fig. 29

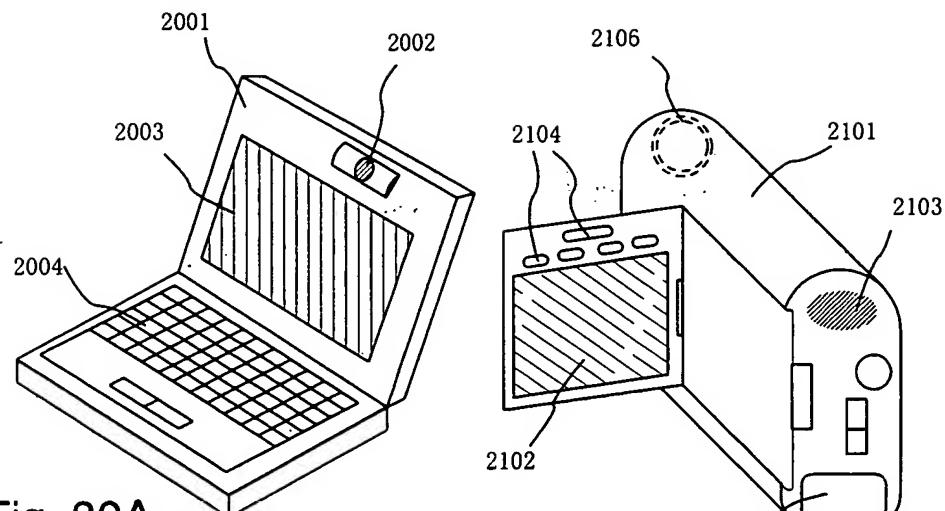


Fig. 30A

Fig. 30B

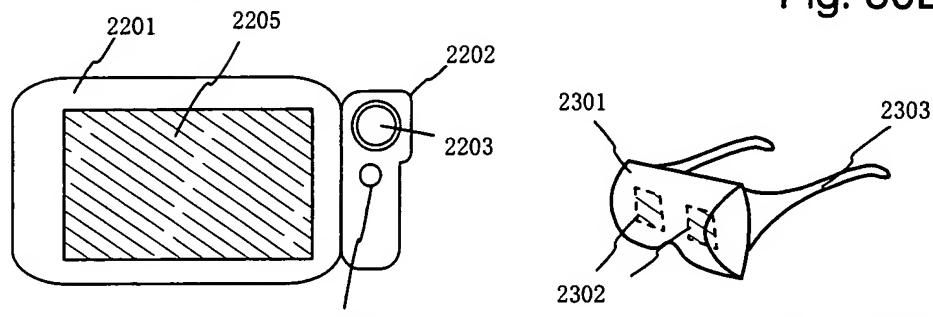


Fig. 30C

Fig. 30D

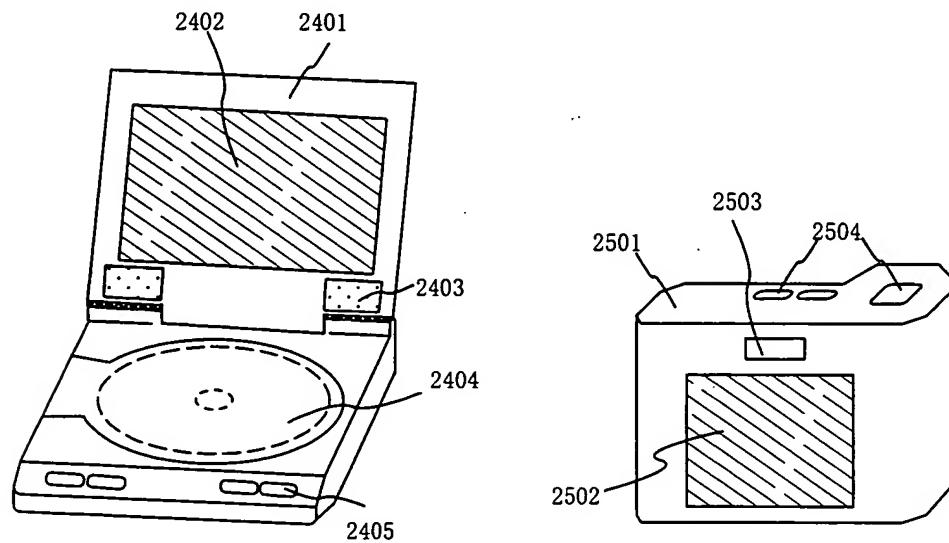


Fig. 30E

Fig. 30F

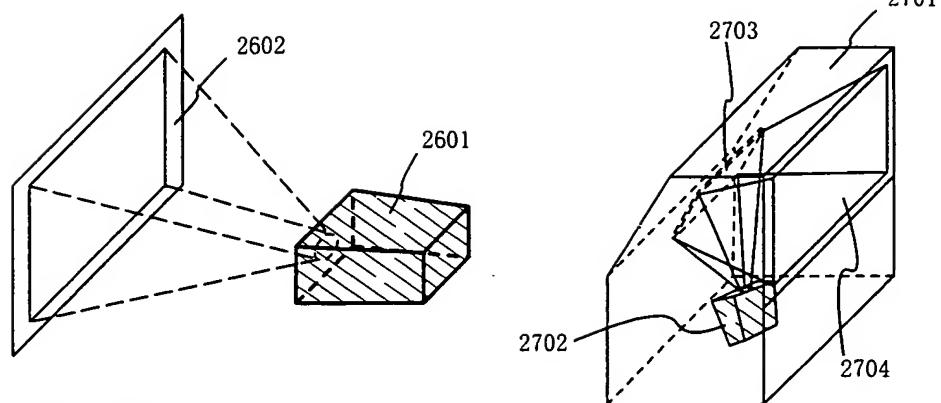


Fig. 31A

Fig. 31B

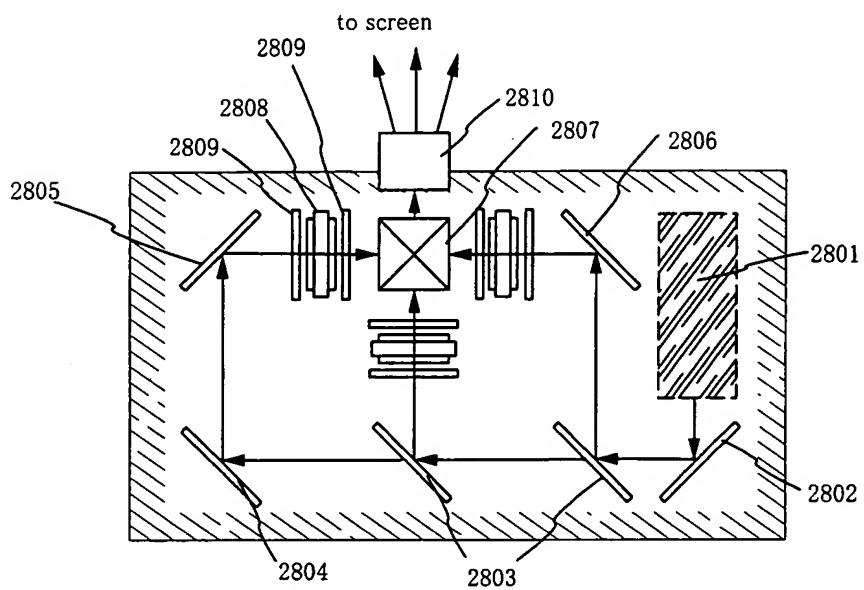


Fig. 31C

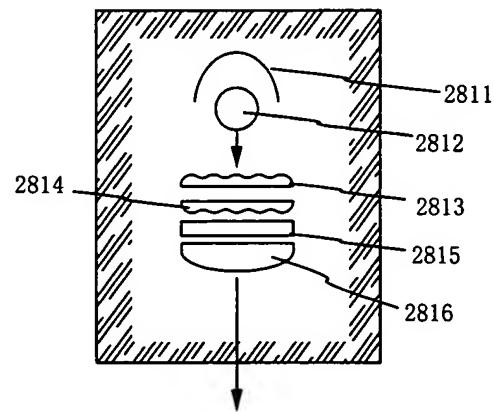


Fig. 31D

Fig. 32A

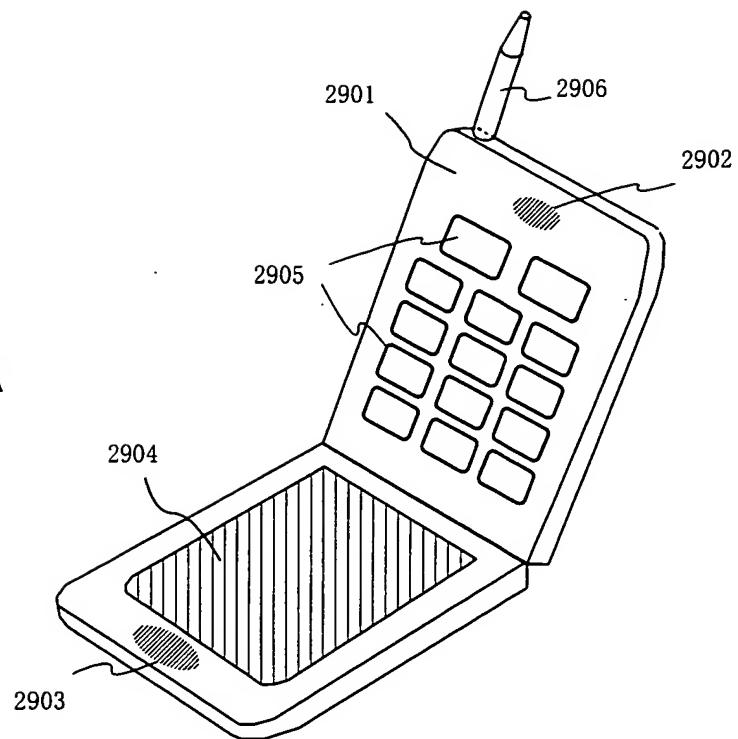


Fig. 32B

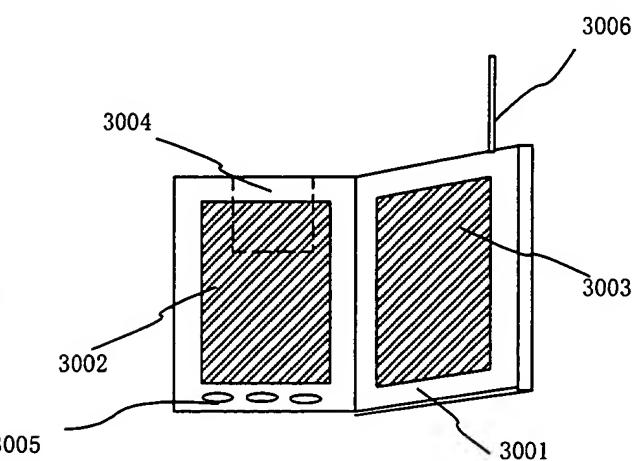


Fig. 32C

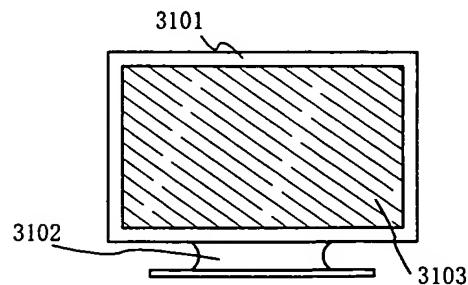


Fig. 33A

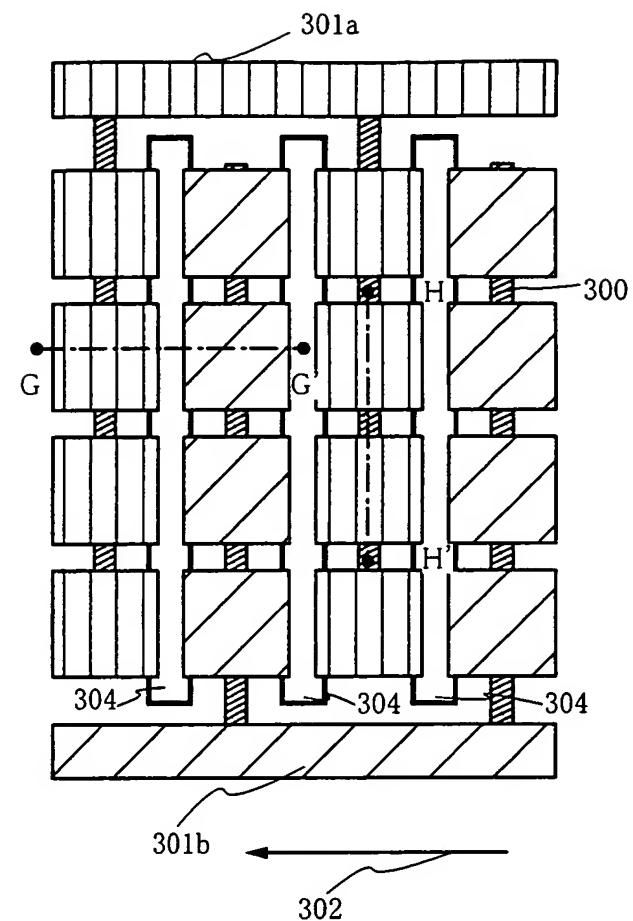


Fig. 33B

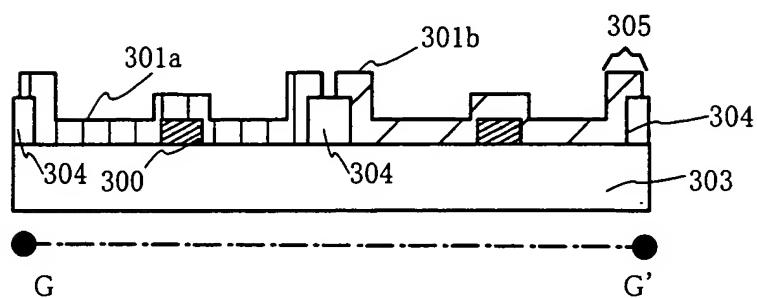
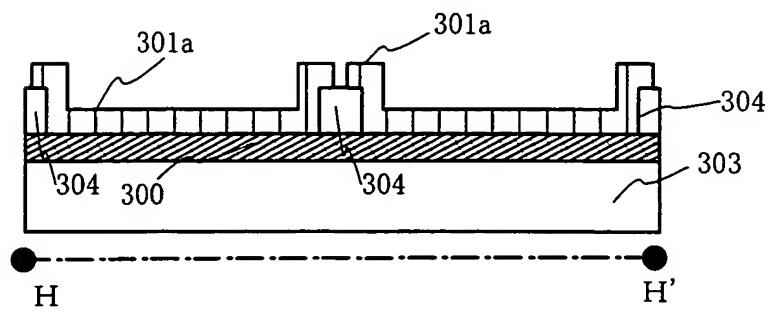
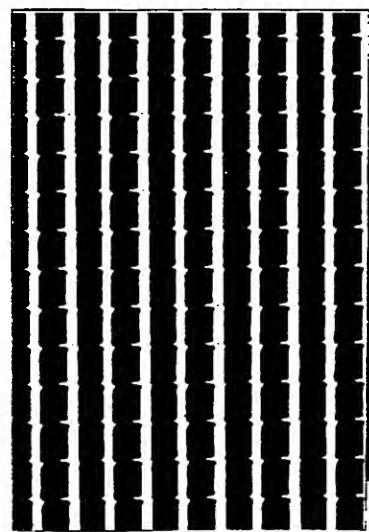


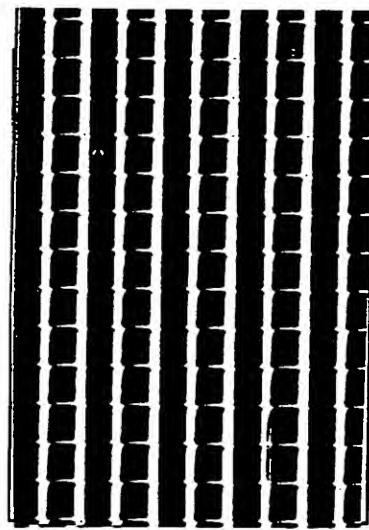
Fig. 33C





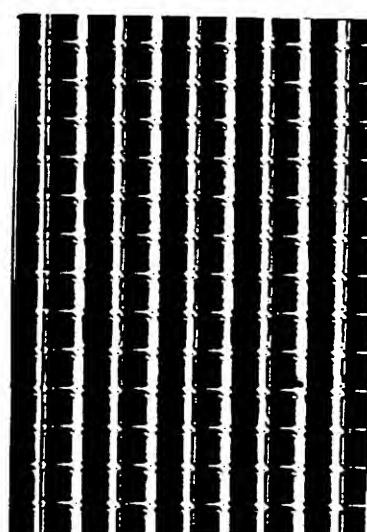
$o = -1.0 \mu m$

Fig. 34A



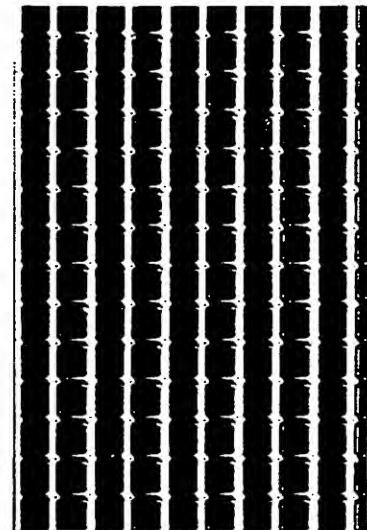
$o = 0 \mu m$

Fig. 34B



$o = 0.5 \mu m$

Fig. 34C



$o = 1.0 \mu m$

Fig. 34D

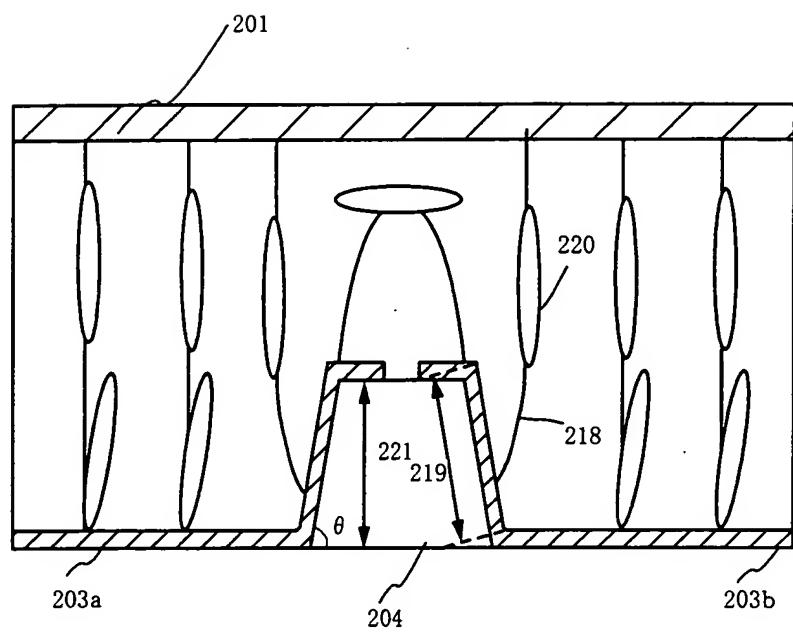
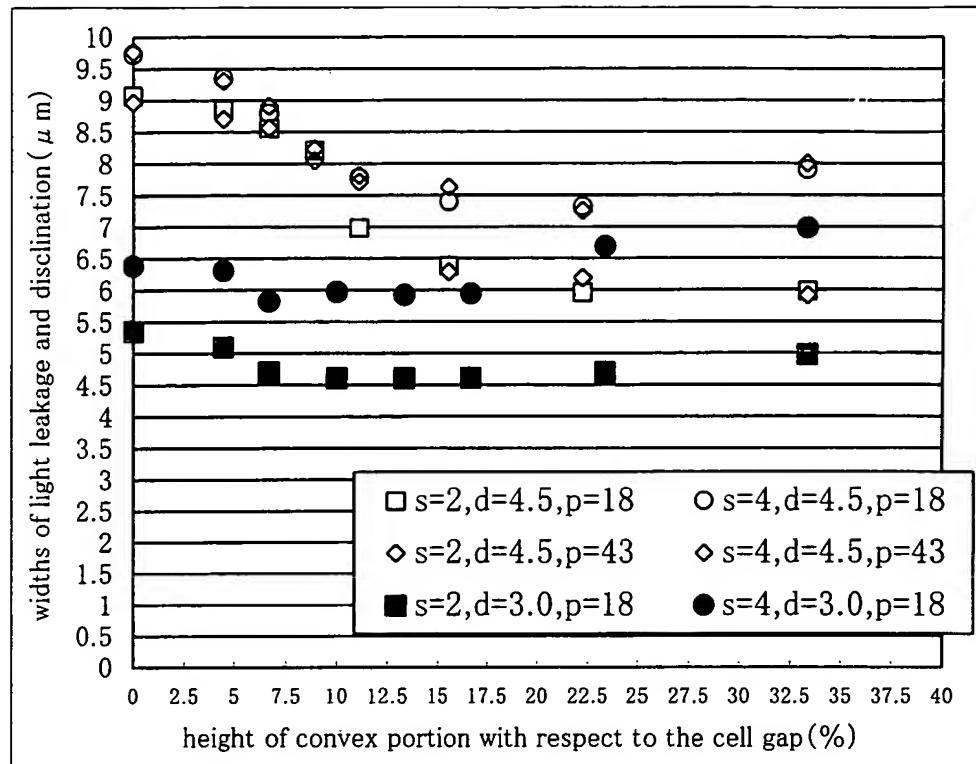


Fig. 35

Fig. 36



d : cell gap (μm)

s : distance between pixel electrodes (μm)

p : pixel pitch (μm)

relationship between widths of light leakage and disclination (w)
and height of convex portion (h)

Fig. 37A

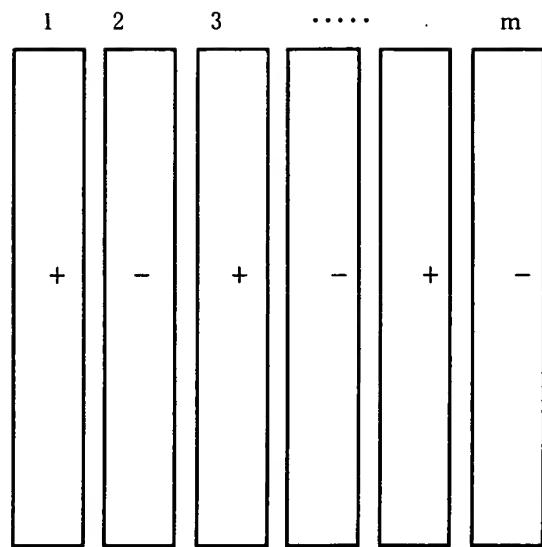


Fig. 37B

